



Cisco UCS Manager XML API Programmer's Guide

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Preface

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Audience

This guide is intended primarily for data center administrators with responsibilities and expertise in one or more of the following:

- Server administration
- Storage administration
- Network administration
- Network security

Conventions

Text Type	Indication
GUI elements	GUI elements such as tab titles, area names, and field labels appear in this font . Main titles such as window, dialog box, and wizard titles appear in this font .
Document titles	Document titles appear in <i>this font</i> .
TUI elements	In a Text-based User Interface, text the system displays appears in <code>this font</code> .
System output	Terminal sessions and information that the system displays appear in <code>this font</code> .
CLI commands	CLI command keywords appear in this font . Variables in a CLI command appear in <i>this font</i> .
[]	Elements in square brackets are optional.

Text Type	Indication
{x y z}	Required alternative keywords are grouped in braces and separated by vertical bars.
[x y z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
< >	Nonprinting characters such as passwords are in angle brackets.
[]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.



Note Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the document.



Tip Means *the following information will help you solve a problem*. The tips information might not be troubleshooting or even an action, but could be useful information, similar to a Timesaver.



Timesaver Means *the described action saves time*. You can save time by performing the action described in the paragraph.



Caution Means *reader be careful*. In this situation, you might perform an action that could result in equipment damage or loss of data.



Warning IMPORTANT SAFETY INSTRUCTIONS

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device.

SAVE THESE INSTRUCTIONS

Related Cisco UCS Documentation

Documentation Roadmaps

For a complete list of all B-Series documentation, see the *Cisco UCS B-Series Servers Documentation Roadmap* available at the following URL: https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/overview/guide/UCS_roadmap.html

For a complete list of all C-Series documentation, see the *Cisco UCS C-Series Servers Documentation Roadmap* available at the following URL: https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/overview/guide/ucs_rack_roadmap.html.

For information on supported firmware versions and supported UCS Manager versions for the rack servers that are integrated with the UCS Manager for management, refer to [Release Bundle Contents for Cisco UCS Software](#).

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CHAPTER 1

Cisco UCS Manager XML API

This chapter includes the following sections:

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- [Cisco UCS Management Information Model, on page 2](#)
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Information About the Cisco UCS Manager XML API

The Cisco UCS Manager XML API is a programmatic interface to Cisco Unified Computing System (UCS). The API accepts XML documents through HTTP or HTTPS. Developers can use any programming language to generate XML documents that contain the API methods. Configuration and state information for Cisco UCS is stored in a hierarchical tree structure known as the management information tree, which is completely accessible through the XML API.

The Cisco UCS Manager XML API supports operations on a single object or an object hierarchy. An API call can initiate changes to attributes of one or more objects such as chassis, blades, adapters, policies, and other configurable components.

The API operates in forgiving mode. Missing attributes are replaced with applicable default values that are maintained in the internal data management engine (DME). The DME ignores incorrect attributes. When multiple managed objects (MOs) are being configured, the API operation stops if any of the MOs (a virtual NIC, for example) cannot be configured. In that case, the management information tree is rolled back to the prior state that preceded the API operation and an error is returned.

Updates to MOs and properties conform to the existing object model to ensure backward compatibility. If existing properties are changed during a product upgrade, they are managed during the database load after the upgrade. New properties are assigned default values.

Operation of the API is transactional and terminates on a single data model. Cisco UCS is responsible for all endpoint communication, such as state updates. Users cannot communicate directly to endpoints, which relieves developers from administering isolated, individual component configurations.

The API model includes the following programmatic entities:

- **Classes**—Define the properties and states of objects in the management information tree.

- Methods—Actions that the API performs on one or more objects.
- Types—Object properties that map values to the object state (for example, `equipmentPresence`).

A typical request comes into the DME and is placed in the transactor queue in FIFO order. The transactor gets the request from the queue, interprets the request, and performs an authorization check. After the request is confirmed, the transactor updates the management information tree. This complete operation is done in a single transaction.

Full event subscription is enabled. After subscribing, any event notification is sent along with its type of state change.

Cisco Unified Computing System Overview

A Cisco UCS domain can consist of up to two Cisco UCS fabric interconnects and a minimum of one Cisco chassis with one blade or rack-mounted server. Up to 40 chassis with a mixture of blade and rack-mounted servers can be connected and controlled by a single Cisco UCS domain.

Cisco UCS Manager runs on the primary fabric interconnect, with failover capability to the subordinate fabric interconnect. In the event of a failover, the virtual IP address will connect to the subordinate fabric interconnect, making it the new primary fabric interconnect.

All XML requests to Cisco UCS are asynchronous and terminate on the active Cisco UCS Manager. Cisco UCS Manager mediates all communication within the system; no direct user access to the Cisco UCS components is required.

Cisco UCS Manager is aware of the current configuration and performs automated device discovery whenever a new resource is installed. After a resource is detected, Cisco UCS Manager adds it and its characteristics to the system inventory. Cisco UCS Manager can preconfigure the new resources if it is directed to do so by an administrator-defined policy.

Cisco UCS Management Information Model

All the physical and logical components that comprise Cisco UCS are represented in a hierarchical management information model (MIM), also referred to as the MIT. Each node in the tree represents a managed object (MO) or group of objects that contains its administrative state and its operational state.

The hierarchical structure starts at the top (`sys`) and contains parent and child nodes. Each node in this tree is a managed object and each object in Cisco UCS has a unique distinguished name (DN) that describes the object and its place in the tree. Managed objects are abstractions of the Cisco UCS resources, such as fabric interconnects, chassis, blades, and rack-mounted servers.

Configuration policies are the majority of the policies in the system and describe the configurations of different Cisco UCS components. Policies determine how the system behaves under specific circumstances. Certain managed objects are not created by users, but are automatically created by the Cisco UCS, for example, power supply objects and fan objects. By invoking the API, you are reading and writing objects to the MIM.

The information model is centrally stored and managed by the data management engine (DME), a user-level process running on the fabric interconnects. When a user initiates an administrative change to a Cisco UCS component (for example, applying a service profile to a server), the DME first applies that change to the information model, and then applies the change to the actual managed endpoint. This approach is called a model-driven framework.

The following is a branch diagram that starts at `sys` from the `topRoot` of the Cisco UCS management information tree. The diagram shows a hierarchy that consists of five populated chassis with eight blades in each chassis. All the blades shown have one or more adapters. For simplicity, only chassis number five is expanded.

Figure 1: Illustration of MIM Structure Showing Five Chassis

```
Tree (topRoot):-----Distinguished Name:

|--sys----- (sys)
  |--chassis-1----- (sys/chassis-1)
  |--chassis-2----- (sys/chassis-2)
  |--chassis-3----- (sys/chassis-3)
  |--chassis-4----- (sys/chassis-4)
  |--chassis-5----- (sys/chassis-5)
    |--blade-1----- (sys/chassis-5/blade-1)
      |--adaptor-1-- (sys/chassis-5/blade-1/adaptor-1)
    |--blade-2----- (sys/chassis-5/blade-2)
      |--adaptor-1-- (sys/chassis-5/blade-2/adaptor-1)
      |--adaptor-2-- (sys/chassis-5/blade-2/adaptor-2)
    |--blade-3----- (sys/chassis-5/blade-3)
      |--adaptor-1-- (sys/chassis-5/blade-3/adaptor-1)
      |--adaptor-2-- (sys/chassis-5/blade-3/adaptor-2)
    |--blade-4----- (sys/chassis-5/blade-4)
      |--adaptor-1-- (sys/chassis-5/blade-4/adaptor-1)
    |--blade-5----- (sys/chassis-5/blade-5)
      |--adaptor-1-- (sys/chassis-5/blade-5/adaptor-1)
      |--adaptor-2-- (sys/chassis-5/blade-5/adaptor-2)
    |--blade-6----- (sys/chassis-5/blade-6)
      |--adaptor-1-- (sys/chassis-5/blade-6/adaptor-1)
    |--blade-7----- (sys/chassis-5/blade-7)
      |--adaptor-1-- (sys/chassis-5/blade-7/adaptor-1)
    |--blade-8----- (sys/chassis-5/blade-8)
      |--adaptor-1-- (sys/chassis-5/blade-8/adaptor-1)
```

Cisco UCS Manager Sample Flow

A typical request comes into the data management engine (DME) and is placed in the transactor queue in FIFO order. The transactor gets the request from the queue, interprets the request, and performs an authorization check. After the request is confirmed, the transactor updates the management information tree. This operation is done in a single transaction.

The following figure shows how Cisco UCS Manager processes a boot server request. The following table describes the steps involved in a boot server request.

Figure 2: Sample Flow of Boot Server Request

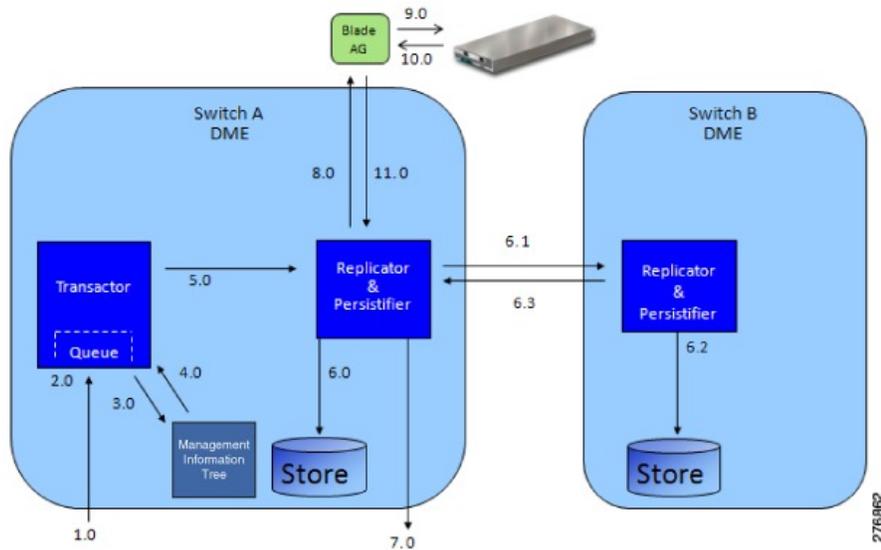


Table 1: Explanation of Boot Server Request

Step	Command/Process	Administrative Power State of MO (Server)	Operational Power State of MO (Server)
1	CMD request: boot server	Down	Down
2	Request queued	Down	Down
3	State change in management information tree	Up	Down
4	Transaction complete	Up	Down
5	Pass change information and boot request stimuli	Up	Down
6.0	Make persistent the managed object (MO) state change	Up	Down
6.1	Send state change information to peer DME	Up	Down
6.2	Make persistent the MO state to peer's local store	Up	Down
6.3	Reply with success (replication and persistence)	Up	Down
7	CMD: response and external notification	Up	Down
8	Apply boot stimuli	Up	Down
9	Instruct BMC to power on server	Up	Down
10	Reply from BMC: server power on success	Up	Up
11	Reply, boot stimuli success, pass new power state information	Up	Up

Object Naming

You can identify a specific object by its distinguished name (DN) or by its relative name (RN).

Distinguished Name

The distinguished name enables you to unambiguously identify a target object. The distinguished name has the following format consisting of a series of relative names:

```
dn = {rn}/{rn}/{rn}/{rn}...
```

In the following example, the DN provides a fully qualified path for `adaptor-1` from the top of the object tree to the object. The DN specifies the exact managed object on which the API call is operating.

```
< dn = "sys/chassis-5/blade-2//adaptor-1"/>
```

Relative Name

The relative name identifies an object within the context of its parent object. The distinguished name is composed of a sequence of relative names.

For example, this distinguished name:

```
<dn = "sys/chassis-5/blade-2//adaptor-1/host-eth-2"/>
```

is composed of the following relative names:

```
topSystem MO: rn="sys"  
equipmentChassis MO: rn="chassis-<id>"  
computeBlade MO: rn = "blade-<slotId>"  
adaptorUnit MO: rn="adaptor-<id>"  
adaptorHostEthIf MO: rn="host-eth-<id>"
```

API Method Categories

Each method corresponds to an XML document.



Note Several code examples in this guide substitute the term `<real_cookie>` for an actual cookie (such as `1217377205/85f7ff49-e4ec-42fc-9437-da77a1a2c4bf`). The XML API cookie is a 47-character string; it is not the type of cookie that web browsers store locally to maintain session information.

Authentication Methods

Authentication methods authenticate and maintain the session. For example:

- `aaaLogin`—Initial method for logging in.

- `aaaRefresh`—Refreshes the current authentication cookie.
- `aaaLogout`—Exits the current session and deactivates the corresponding authentication cookie.

Use the `aaaLogin` method to get a valid cookie. Use `aaaRefresh` to maintain the session and keep the cookie active. Use the `aaaLogout` method to terminate the session (also invalidates the cookie). A maximum of 256 sessions to the Cisco UCS can be opened at any one time.

Operations are performed using the HTTP post method (Cisco UCS supports both HTTP and HTTPS requests) over TCP. HTTP and HTTPS can be configured to use different port numbers, but TCP/443 (or TCP/80 for non-secure connections) is used by default. The HTTP envelope contains the XML configuration.



Tip In CIMC, HTTP to HTTPS redirection is enabled by default. To capture HTTP packets between the client application and CIMC, disable redirection in the CIMC GUI or CLI.

Query Methods

Query methods obtain information on the current configuration state of an object. The following are query examples:

- `configResolveDn`—Retrieves objects by DN.
- `configResolveDns`—Retrieves objects by a set of DNs.
- `configResolveClass`—Retrieves objects of a given class.
- `configResolveClasses`—Retrieves objects of multiple classes.
- `configFindDnsByClassId`—Retrieves the DNs of a specified class.
- `configResolveChildren`—Retrieves the child objects of an object.
- `configResolveParent`—Retrieves the parent object of an object.
- `configScope`—Performs class queries on a DN in the management information tree.

Most query methods have the argument `inHierarchical` (Boolean true/yes or false/no). If true, the `inHierarchical` argument returns all child objects.

```
<configResolveDn ... inHierarchical="false"></>
<configResolveDn ... inHierarchical="true"></>
```

Because the amount of data returned from Cisco UCS can be quite large, the `inHierarchical` argument should be used with care. For example, if the query method is used on a class or DN that refers to a managed object (MO) that is located high on the management information tree and `inHierarchical` is set to true, the response can contain almost the entire Cisco UCS configuration. The resources required for Cisco UCS to process the request can be high, causing Cisco UCS to take an extended amount of time to respond. To avoid delays, the query method should be performed on a smaller scale involving fewer MOs.



Tip If a query method does not respond or is taking a long time to respond, increase the timeout period on the client application or adjust the query method to involve fewer MOs.

The query API methods might also have an `inRecursive` argument to specify whether the call should be recursive (for example, follow objects that point back to other objects or the parent object).

The API also provides a set of filters to increase the usefulness of the query methods. These filters can be passed as part of a query and are used to identify the wanted result set.



Note Until a host is powered on at least once, Cisco UCS may not have complete inventory and status information. For example, if Cisco UCS is reset, it will not have detailed CPU, memory, or adapter inventory information until the next time the host is powered on. If a query method is performed on a MO corresponding to the unavailable data, the response will be blank.

Simple Filters

There are two simple filters, the true filter and false filter. These two filters react to the simple states of true or false, respectively.

- True filter—Result set of objects with the Boolean condition of true.
- False filter—Result set of objects with the Boolean condition of false.

Property Filters

The property filters use the values of an object's properties as the criteria for inclusion in a result set. To create most property filters, `classId` and `propertyId` of the target object/property is required, along with a value for comparison.

- Equality filter—Restricts the result set to objects with the identified property of “equal” to the provided property value.
- Not equal filter—Restricts the result set to objects with the identified property of “not equal” to the provided property value.
- Greater than filter—Restricts the result set to objects with the identified property of “greater than” the provided property value.
- Greater than or equal filter—Restricts the result set to objects with the identified property of “is greater than or equal” to the provided property value.
- Less than filter—Restricts the result set to objects with the identified property of “less than” the provided property value.
- Less than or equal filter—Restricts the result set to objects with the identified property of “less than or equal” to the provided property value.
- Wildcard filter—Restricts the result set to objects with the identified property matches that includes a wildcard. Supported wildcards include “%” or “*” (any sequence of characters), “?” or “-” (any single character).
- Any bits filter—Restricts the result set to objects with the identified property that has at least one of the passed bits set. (Use only on bitmask properties.)
- All bits filter—Restricts the result set to objects with the identified property that has all the passed bits set. (Use only on bitmask properties.)

Composite Filters

The composite filters are composed of two or more component filters. They enable greater flexibility in creating result sets. For example, a composite filter could restrict the result set to only those objects that were accepted by at least one of the contained filters.

- **AND filter**—Result set must pass the filtering criteria of each component filter. For example, to obtain all compute blades with `totalMemory` greater than 64 megabytes and operability of operable, the filter is composed of one greater than filter and one equality filter.
- **OR filter**—Result set must pass the filtering criteria of at least one of the component filters. For example, to obtain all the service profiles that have an `assignmentState` of unassigned or an association state value of unassociated, the filter is composed of two equality filters.
- **Between filter**—Result set is those objects that fall between the range of the first specified value and second specified value, inclusive. For example, all faults that occurred starting on the first date and ending on the last date.
- **XOR filter**—Result set is those objects that pass the filtering criteria of no more than one of the composite's component filters.

Modifier Filter

A modifier filter changes the results of a contained filter.

The only modifier filter that is currently supported is the NOT filter that negates the result of a contained filter. Use this filter to obtain objects that do not match contained criteria.

Configuration Methods

There are several methods to make configuration changes to managed objects. These changes can be applied to the whole tree, a subtree, or an individual object. The following are examples of configuration methods:

- `configConfMo`—Affects a single managed object (for example, a DN).
- `configConfMos`—Affects multiple subtrees (for example, several DNs).
- `configConfMoGroup`—Makes the same configuration changes to multiple subtree structures (DNs) or managed objects.

Most configuration methods use the argument `inHierarchical` (Boolean true/yes or false/no). These values do not play a significant role during configuration because child objects are included in the XML document and the DME operates in the forgiving mode.

Event Subscription Methods

Applications get state change information by regular polling or event subscription. For more efficient use of resources, event subscription is the preferred method of notification. Polling should be used only under very limited circumstances.

Use `eventSubscribe` to register for events, as shown the following example:

```
<eventSubscribe
  cookie="<real_cookie>">
```

```
</eventSubscribe>
```

To receive notifications, open an HTTP or HTTPS session over TCP and keep the session open. On receiving `eventSubscribe`, Cisco UCS starts sending all new events as they occur. You can unsubscribe from these events using the `eventUnsubscribe` method.

Each event has a unique event ID. Event IDs operate as counters and are included in all method responses. When an event is generated, the event ID counter increments and is assigned as the new event ID. This sequential numbering enables tracking of events and ensures that no event is missed.

An event channel connection opened by a user will be closed automatically by Cisco UCS after 600 seconds of inactivity associated with the event channel session cookie. To prevent automatic closing of the event channel connection by Cisco UCS, the user must either send the `aaaKeepAlive` request for the same event channel session cookie within 600 seconds or send any other XML API method to Cisco UCS using the same event channel session cookie.

Capturing XML Interchange Between the GUI and Cisco UCS

Interchange is stored in a log file such as `C:\Documents and Settings\username\Application Data\Sun\Java\Deployment\log\.ucsm`. Due to internal security requirements, this information is not always complete. However, you can use a commercial packet analyzer application to observe sent XML.

Success or Failure Response

When Cisco UCS responds to an XML API request, the response indicates failure if the request is impossible to complete. A successful response indicates only that the request is valid, not that the operation is complete. For example, it may take some time for a server to finish a power-on request. The power state changes from down to up only after the server actually powers on.

Successful Response

When a request has executed successfully, Cisco UCS returns an XML document with the information requested or a confirmation that the changes were made. The following is an example of a `configResolveDn` query on the distinguished name `sys/chassis-1/blade-1`:

```
<configResolveDn
  dn="sys/chassis-1/blade-1"
  cookie="<real_cookie>"
  inHierarchical="false"/>
```

The response includes the following information:

```
<configResolveDn dn="sys/chassis-1/blade-1"
  cookie="<real_cookie>"
  response="yes">
  <outConfig>
    <computeItem adminPower="policy"
      adminState="in-service"
      assignedToDn=""
      association="none"
      availability="available"
```

```

        chassisId="1"
        checkPoint="discovered"
        connPath="A"
        connStatus="A"
        discovery="complete"
        dn="sys/chassis-1/blade-1"
        fltAggr="0"
        fsmDescr=""
        fsmFlags=""
        fsmPrev="DiscoverSuccess"
        fsmRmtInvErrCode="unspecified"
        fsmRmtInvErrDescr=""
        fsmRmtInvRslt=""
        fsmStageDescr=""
        fsmStamp="2008-11-24T01:27:10"
        fsmStatus="nop"
        fsmTry="0"
        lc="discovered"
        managingInst="A"
        model="Gooding"
        name=""
        numOfAdaptors="1"
        numOfCores="4"
        numOfEthHostIifs="2"
        numOfFcHostIifs="2"
        numOfThreads="0"
        operPower="off"
        operState="unassociated"
        operability="operable"
        originalUuid="1b4e28ba-2fa1-11d2-0101-b9a761bde3fb"
        presence="equipped"
        revision=""
        serial="1-1"
        slotId="1"
        totalMemory="4096"
        uuid=""
        vendor="Cisco"/>
    </outConfig>
</configResolveDn>

```

Failed Requests

The response to a failed request includes XML attributes for `errorCode` and `errorDescr`. The following is an example of a response to a failed request:

```

<configConfMo dn="fabric/server"
  cookie="<real_cookie>"
  response="yes"
  errorCode="103"
  invocationResult="unidentified-fail"
  errorDescr="can't create; object already exists.">
</configConfMo>

```

Empty Results

A query request for a nonexistent object is not treated as a failure by the DME. If the object does not exist, Cisco UCS returns a success message, but the XML document contains an empty data field (`<outConfig>` `</outConfig>`) to indicate that the requested object was not found. The following example shows the response to an attempt to resolve the distinguished name on a nonexistent rack-mount server:

```
<configResolveDn
  dn="sys/chassis-1/blade-4711"
  cookie="<real_cookie>"
  response="yes">
  <outConfig>
  </outConfig>
</configResolveDn>
```

Empty Results



CHAPTER 2

Using the Cisco UCS Manager XML API Methods

This chapter includes the following sections:

- [Authentication Methods, on page 13](#)
- [Query Methods, on page 16](#)
- [Using Query Methods for Statistics, on page 20](#)
- [Querying Faults, on page 21](#)
- [Using Filters, on page 21](#)

Authentication Methods

Authentication allows XML API interaction with the Cisco UCS. It provides a way to set permissions and control the operations that can be performed.



Note Most code examples in this guide substitute the term `<real_cookie>` for an actual cookie (such as `1217377205/85f7ff49-e4ec-42fc-9437-da77a1a2c4bf`). The Cisco UCS cookie is a 47-character string; it is not the type of cookie that web browsers store locally to maintain session information.

Login

To log in, the XML API client establishes a TCP connection to the Cisco UCS Manager HTTP (or HTTPS) server and posts an XML document containing the `aaaLogin` method.

In the following example, the Telnet utility is used to establish a TCP connection to port 80 of the Cisco UCS Manager with IP address 192.0.20.72. The path used is `/nuova`.

```
$ telnet 192.0.20.72 80
POST /nuova HTTP/1.1
USER-Agent: lwp-request/2.06
HOST: 192.0.20.72
Content-Length: 62
Content-Type: application/x-www-form-urlencoded
```

Next, the client specifies the `aaaLogin` method and provides a user name and password:

```
<aaaLogin
  inName="admin"
  inPassword="password" />
```



Note Do not include XML version or DOCTYPE lines in the XML API document. The inName and inPassword attributes are parameters.

Each XML API document represents an operation to be performed. When the request is received as an XML API document, Cisco UCS reads the request and performs the actions as provided in the method. Cisco UCS responds with a message in XML document format and indicates success or failure of the request.

The following is a typical successful response:

```
1 <aaaLogin
2   response="yes"
3   outCookie="<real_cookie>"
4     outRefreshPeriod="600"
5     outPriv="aaa,ext-lan-policy,ext-lan-qos,ext-san-policy,operations,
6       pod-policy,pod-qos,read-only"
7   outDomains="mgmt02-dummy"
8   outChannel="noencssl"
9   outEvtChannel="noencssl">
```

Each line in the response should be interpreted as follows:

1. Specifies the method used to login.
2. Confirms that this is a response.
3. Provides the session cookie.
4. Specifies the recommended cookie refresh period. The default login session length is 600 seconds.
5. Specifies the privilege level assigned to the user account.
6. The outDomains value is `mgmt02-dummy`.
7. The outChannel value of `noencssl` declares that this session is not using encryption over SSL.
8. The outEvtChannel value of `noencssl` declares that any event subscriptions would not use encryption over SSL.
9. Closing tag.

Alternatively, you can use the cURL utility to log in to the XML API, as shown in the following example:

```
curl -d "<aaaLogin inName='admin' inPassword='password'></aaaLogin>" http://192.0.20.72/nuova
```

If HTTPS is enabled, you must use HTTPS in the cURL command, as shown in the following example:

```
curl -d "<aaaLogin inName='admin' inPassword='password'></aaaLogin>" https://192.0.20.72/nuova
```

Refreshing the Session

Sessions are refreshed with the `aaaRefresh` method, using the 47-character cookie obtained either from the `aaaLogin` response or a previous refresh.

```
<aaaRefresh
  inName="admin"
  inPassword="mypassword"
  inCookie="real_cookie"/>
```

Logging Out of the Session

Use the following method to log out of a session:

```
<aaaLogout
  inCookie="<real_cookie>" />
```

Unsuccessful Responses

Failed login:

```
<aaaLogin
  response="yes"
  cookie="<real_cookie>"
  errorCode="551"
  invocationResult="unidentified-fail"
  errorDescr="Authentication failed">
</aaaLogin>
```

Nonexistent object (blank return indicates no object with the specified DN):

```
<configResolveDn
  dn="sys-machine/chassis-1/blade-4711"
  cookie="<real_cookie>"
  response="yes">
  <outConfig> </outConfig>
</configResolveDn>
```

Bad request:

```
<configConfMo
  dn="fabric/server"
  cookie="<real_cookie>"
  response="yes"
  errorCode="103"
  invocationResult="unidentified-fail"
  errorDescr="can't create; object already exists.">
</configConfMo>
```

Query Methods

Using `configFindDnsByClassId`

When finding distinguished names of a specified class, note the following:

- This method retrieves the DNs of a specified class.
- `classId` specifies the object type to retrieve (required).
- Authentication cookie (from `aaaLogin` or `aaaRefresh`) is required.
- Enumerated values, `classIds`, and bit masks are displayed as strings.

See the example request/response in [configFindDnsByClassId, on page 66](#).

Using `configResolveChildren`

When resolving children of objects in the MIT, note the following:

- This method obtains all child objects of a named object that are instances of the named class. If a class name is omitted, all child objects of the named object are returned.
- `inDn` attribute specifies the named object from which the child objects are retrieved (required).
- `classId` attribute specifies the name of the child object class to return (optional).
- Authentication cookie (from `aaaLogin` or `aaaRefresh`) is required.
- `inHierarchical` attribute (default = false) if true, specifies that results are hierarchical.
- Enumerated values, `classIds`, and bit masks are displayed as strings.

See the example request/response in [configResolveChildren, on page 76](#).

Using `configResolveClass`

When resolving a class, note the following:

- All objects of the specified class type are retrieved.
- `classId` specifies the object class name to return (required).
- Authentication cookie (from `aaaLogin` or `aaaRefresh`) is required.
- `inHierarchical` attribute (default = false) if true, specifies that results are hierarchical.
- Enumerated values, `classIds`, and bit masks are displayed as strings.

Result sets can be large. Be precise when defining result sets. For example, to obtain only a list of servers, use `computeItem` as the attribute value for `classId` in the query. To get all instances of equipment, query the `equipmentItem` class. This example queries for all instances of the `equipmentItem` class:

```
<configResolveClass
  cookie="real_cookie"
  inHierarchical="false"
  classId="equipmentItem"/>
```

See the example request/response in [configResolveClass, on page 80](#).

Using configResolveClasses

When resolving multiple classes, note the following:

- This method retrieves all the objects of the specified class types.
- classId attribute specifies the name of the object class to return (required).
- Authentication cookie (from `aaaLogin` or `aaaRefresh`) is required.
- inHierarchical attribute (default = false) if true, specifies that results are hierarchical.
- Enumerated values, `classIds`, and bit masks are displayed as strings.

If an invalid class name is specified in the `inId` attribute, an XML parsing error is generated and the query cannot execute.

See the example request/response in [configResolveClasses, on page 81](#).

Using configResolveDn

When resolving a DN, note the following:

- The object specified by the DN is retrieved.
- Specified DN identifies the object instance to be resolved (required).
- Authentication cookie (from `aaaLogin` or `aaaRefresh`) is required.
- inHierarchical attribute (default = false) if true, specifies that results are hierarchical.
- Enumerated values, `classIds`, and bit masks are displayed as strings.

See the example request/response in [configResolveDn, on page 86](#).

Using configResolveDns

When resolving multiple DNSs, note the following:

- The objects specified by the DNSs are retrieved.
- Specified DN identifies the object instance to be resolved (required).
- Authentication cookie (from `aaaLogin` or `aaaRefresh`) is required.
- inHierarchical attribute (default = false) if true, specifies that results are hierarchical.
- Enumerated values, `classIds`, and bit masks are displayed as strings.

- Order of a request does not determine the order of the response.
- Unknown DNs are returned as part of the `outUnresolved` element.

See the example request/response in [configResolveDns](#), on page 88.

Using configResolveParent

When resolving the parent object of an object, note the following:

- This method retrieves the parent object of a specified DN.
- `dn` attribute is the DN of the child object (required).
- Authentication cookie (from `aaaLogin` or `aaaRefresh`) is required.
- `inHierarchical` attribute (default = false) if true, specifies that results are hierarchical.
- Enumerated values, `classIds`, and bit masks are displayed as strings.

See the example request/response in [configResolveParent](#), on page 89.

Using configScope

Limiting the scope of a query allows for a finer grained, less resource-intensive request. The query can be anchored at a point in the management information tree other than the root. When setting the query scope, note the following:

- This method sets the root (scope) of the query to a specified DN and returns objects of the specified class type.
- `dn` is the named object from which the query is scoped (required).
- `inClass` attribute specifies the name of the object class to return (optional; when a class is not specified, the query acts the same as `configResolveDn`).
- Authentication cookie (from `aaaLogin` or `aaaRefresh`) is required.
- `inHierarchical` attribute (default = false) if true, specifies that results are hierarchical.
- Enumerated values, `classIds`, and bit masks are displayed as strings.

The following example is a query for the Ethernet interfaces on the blades in chassis 1:

```
<configScope
  dn="sys/chassis-1"
  inClass="adaptorExtEthIf"
  cookie="<real_cookie>"
  inHierarchical="false"/>
```

Also see the example request/response in [configScope](#), on page 91.

Querying the MAC Pool

To obtain a list of all MAC addresses, query for `macpoolAddr`. These are children of the (system-created) `macpoolUniverse`. The request is as follows:

```
<configScope
  cookie="<real_cookie>"
  inHierarchical="false"
  dn="mac" inClass="macpoolAddr"/>
```

The response is as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<configScope
  cookie="<real_cookie>"
  dn="mac" response="yes">
  <outConfigs>
    <macpoolAddr
      assigned="no"
      assignedToDn=""
      dn="mac/00:00:00:00:FF:0F"
      id="00:00:00:00:FF:0F"
      owner="pool">
    </macpoolAddr>
    <macpoolAddr
      assigned="no"
      assignedToDn=""
      dn="mac/00:00:00:00:FF:0E"
      id="00:00:00:00:FF:0E"
      owner="pool">
    </macpoolAddr>
    .
    .
  <\outconfig
<\configScope
```

Because the objects of the `macpoolAddr` class can exist only as children of the MAC pool universe, a simpler query follows:

```
<configResolveClass
  cookie="<real_cookie>"
  inHierarchical="false"
  classId="macpoolAddr"/>
```

To determine which `computeItem` (blade or rack mount server) is assigned a particular MAC address, specify the MAC address in the query and look at the `assignedToDn` field in the response. For example, a request with a specified MAC address follows:

```
<configResolveDn
  cookie="<real_cookie>"
  inHierarchical="false"
  dn="mac/10:00:00:00:00:03"/>
```

The response is as follows:

```

<configResolveDn
  dn="mac/10:00:00:00:00:03"
  cookie="real_cookie"
  response="yes">
<outConfig>
  <macpoolAddr assigned="yes"
    assignedToDn="org-root/ls-BOB/ether-eth1"
    dn="mac/10:00:00:00:00:03" id="10:00:00:00:00:03"
    owner="pool" />
</outConfig>
</configResolveDn>

```

Using Query Methods for Statistics

Statistics are available on a wide range of objects. Querying all statistics at once is resource intensive. Instead, identify the type of statistic and the object on which it reports; for example, getting the `compCpuStats` object for `sys/chassis-1/blade-1/board/cpu-2`, query for all children of `sys/chassis-1/blade-1/board/cpu-2`. The request is as follows:

```

<configScope
  cookie="real_cookie"
  inHierarchical="false"
  dn="sys/chassis-1/blade-1/board/cpu-2"
  inClass="processorEnvStats" />

```

The system response is as follows:

```

<configScope
  dn="sys/chassis-1/blade-5/board/cpu-2"
  cookie="<real_cookie>"
  response="yes">
<outConfigs>
  <processorEnvStats
    dn="sys/chassis-1/blade-5/board/cpu-2/env-stats"
    inputVoltage="0.058200"
    inputVoltageAvg="0.062080"
    inputVoltageMax="0.077600"
    inputVoltageMin="0.058200"
    intervals="58982460"
    suspect="no"
    temperature="23.000000"
    temperatureAvg="23.000000"
    temperatureMax="23.000000"
    temperatureMin="23.000000"
    thresholded=""
    timeCollected="2009-09-23T12:40:55"
    update="327680"/>
</outConfigs>
</configScope>

```

A query by the DN is more efficient:

```

<configResolveDn
  inHierarchical="false"
  cookie="<real_cookie>"

```

```

    dn="sys/chassis-1/blade-1/board/cpu-2/processorEnvStats">
</configResolveDn>

```

With the statistic object's DN, query for historical statistics on the children of the object using a hierarchical query. To get the statistic object and historical statistics, change `inHierarchical` to `true`:

```

<configResolveDn
  inHierarchical="true"
  cookie="real_cookie">
  dn="sys/chassis-1/blade-1/board/cpu-2/processorEnvStats">
</configResolveDn>

```

Querying Faults

The following example obtains a list of major faults:

```

<configResolveClass
  cookie="real_cookie"
  inHierarchical="false"
  classId="faultInst"/>

```

The following example (which contains the filter `<inFilter>eq class= "faultInst"`) obtains a list of all major or critical faults:

```

<configResolveClass
  cookie="real_cookie">
  inHierarchical="false"
  classId="faultInst">
  <inFilter>
    <eq class="faultInst"
      property="highestSeverity"
      value="major" />
  </inFilter>
</configResolveClass>

```

Using Filters

Simple Filters

Simple filters use true and false conditions of properties to select results.

False example:

```

<configResolveClass
  cookie="real_cookie">
  classId="topSystem"
  inHierarchical="false">
  <inFilter>
  </inFilter>

```

```
</configResolveClass>
```

True example:

```
<configResolveClass
  cookie="<real_cookie>"
  classId="topSystem"
  inHierarchical="true">
  <inFilter>
  </inFilter>
</configResolveClass>
```

Property Filters

Equality Filter

The example shows a query for all associated servers. The filter is framed as follows:

```
<configResolveClass
  cookie="<real_cookie>"
  inHierarchical="false"
  classId="lsServer">
  <inFilter>
    <eq class="lsServer"
      property="assocState"
      value="associated" />
  </inFilter>
</configResolveClass>
```

Not Equal Filter

The example finds all unassigned servers (assignment state property is not equal to **assigned**). The filter is framed as follows:

```
<configResolveClass
  cookie="<real_cookie>"
  inHierarchical="false"
  classId="lsServer">
  <inFilter>
    <ne class="lsServer"
      property="assignState"
      value="assigned" />
  </inFilter>
</configResolveClass>
```

Greater Than Filter

The example finds the memory arrays with more than 1024 MB capacity. The filter is framed as follows:

```
<configResolveClass
  cookie="<real_cookie>"
  inHierarchical="false"
  classId="memoryArray">
  <inFilter>
    <gt class="memoryArray"
      property="currCapacity">
```

```

        value="1024" />
    </inFilter>
</configResolveClass>

```

Greater Than or Equal to Filter

The example finds the memory arrays with 2048 MB capacity or more. The filter is framed as follows:

```

<configResolveClass
  cookie="<real_cookie>"
  inHierarchical="false"
  classId="memoryArray">
  <inFilter>
    <ge class="memoryArray"
      property="currCapacity"
      value="2048" />
  </inFilter>
</configResolveClass>

```

Less Than Filter

The example finds memory arrays with less than 1024 MB capacity. The filter is framed as follows:

```

<configResolveClass
  cookie="<real_cookie>"
  inHierarchical="false"
  classId="memoryArray">
  <inFilter>
    <lt class="memoryArray"
      property="currCapacity"
      value="1024" />
  </inFilter>
</configResolveClass>

```

Less Than or Equal to Filter

The example finds memory arrays with 2048 MB capacity or less. The filter is framed as follows:

```

<configResolveClass
  cookie="<real_cookie>"
  inHierarchical="false"
  classId="memoryArray">
  <inFilter>
    <le class="memoryArray"
      property="currCapacity"
      value="2048" />
  </inFilter>
</configResolveClass>

```

Wildcard Filter

The wildcard filter uses standard regular expression syntax. The example finds any adapter unit whose serial number begins with the prefix **QCI1**:

```

<configResolveClass
  cookie="<real_cookie>"

```

```

inHierarchical="false"
classId="adaptorUnit">
<inFilter>
  <wcard class="adaptorUnit"
    property="serial"
    value="QC11.*" />
</inFilter>
</configResolveClass>

```

Any Bits Filter

This example finds all servers that have a `connStatus` of either **A** or **B** (the property `connStatus` is a bit mask). The filter is framed as follows:

```

<configResolveClass
  cookie="null"
  inHierarchical="false"
  classId="computeItem">
<inFilter>
  <anybit class="computeItem"
    property="connStatus"
    value="A,B" />
</inFilter>
</configResolveClass>

```

All Bits Filter

The example finds all service profiles with the `configQualifier` bit mask set to both **vnica-capacity** and **vhba-capacity**. The filter is framed as follows:

```

<configResolveClass
  cookie="<real_cookie>"
  inHierarchical="false"
  classId="lsServer">
<inFilter>
  <allbits class="lsServer"
    property="configQualifier"
    value="vnica-capacity,vhba-capacity" />
</inFilter>
</configResolveClass>

```

Composite Filters

AND Filter

To determine all UUIDs assigned and owned by pools, run the following query. The filter is framed as follows:

```

<configResolveClass
  cookie="<real_cookie>"
  inHierarchical="false"
  classId="uuidpoolAddr">
<inFilter>
  <and>
    <eq class="uuidpoolAddr"
      property="owner"
      value="pool" />
    <eq class="uuidpoolAddr"

```

```

        property="assigned"
        value="yes" />
    </and>
</inFilter>
</configResolveClass>

```

The response is as follows:

```

<configResolveClass
  classId="uuidpoolAddr"
  cookie="<real_cookie>"
  response="yes">
  <outConfigs>
    <uuidpoolAddr
      assigned="yes"
      assignedToDn="org-root/ls-foo"
      dn="uuid/F000-00000000000F"
      id="F000-00000000000F"
      owner="pool">
    </uuidpoolAddr>
  </outConfigs>
</configResolveClass>

```

In the example, the AND filter finds the chassis with vendor **Cisco Systems Inc** and serial number **CHS A04**:

```

<configResolveClass
  cookie="<real_cookie>"
  inHierarchical="false"
  classId="equipmentChassis">
  <inFilter>
    <and>
      <eq property="vendor"
        value="Cisco Systems Inc"
        class="equipmentChassis"/>
      <eq class="equipmentChassis"
        property="serial"
        value="CHS A04"/>
    </and>
  </inFilter>
</configResolveClass>

```

OR Filter

The example returns all objects of type `computeItem` that are located in slot one or slot eight from all chassis.

```

<configResolveClass
  inHierarchical="false"
  cookie="<real_cookie>"
  classId="compute">
  <inFilter>
    <or>
      <eq class="computeItem"
        property="slotId"
        value="1"/>
      <eq class="computeItem"
        property="slotId"
        value="8"/>
    </or>

```

```

    </inFilter>
</configResolveClass>

```

Between Filter

The example finds the memory arrays with slots 1, 2, 3, 4, or 5 populated (note that the between range is inclusive). The filter is framed as follows:

```

<configResolveClass
  cookie="<real_cookie>"
  inHierarchical="false"
  classId="memoryarray">
  <inFilter>
    <bw class="memoryArray"
      property="populated"
      firstValue="1"
      secondValue="5"/>
  </inFilter>
</configResolveClass>

```

AND, OR, NOT Composite Filter

The example is an AND, OR, NOT combination. It returns all objects of the `computeItem` type that are located in slot one or slot eight from all chassis, except chassis five.

```

<configResolveClass
  inHierarchical="false"
  cookie="<real_cookie>"
  classId="computeItem">
  <inFilter>
    <and>
      <or>
        <eq class="computeItem" property="slotId" value="1"/>
        <eq class="computeItem" property="slotId" value="8"/>
      </or>
      <not>
        <eq class="computeItem" property="chassisId" value="5"/>
      </not>
    </and>
  </inFilter>
</configResolveClass>

```

NOT Modifier Filter

The NOT filter can negate a contained filter. The filter is framed as follows. The example queries for servers that do not have a `connStatus` of unknown (the property `connStatus` is a bit mask).

```

<configResolveClass
  cookie="null"
  inHierarchical="false"
  classId="computeItem">
  <inFilter>
    <not>
      <anybit class="computeItem"
        property="connStatus"
        value="unknown" />
    </not>
  </inFilter>
</configResolveClass>

```

```
</inFilter>  
</configResolveClass>
```




CHAPTER 3

Cisco UCS Manager XML API Method Descriptions

This chapter includes the following sections:

- [aaaChangeSelfPassword](#), on page 30
- [aaaCheckComputeAuthToken](#), on page 32
- [aaaCheckComputeExtAccess](#), on page 34
- [aaaGetNComputeAuthTokenByDn](#), on page 35
- [aaaGetComputeAuthTokens](#), on page 37
- [aaaKeepAlive](#), on page 38
- [aaaLogin](#), on page 39
- [aaaLogout](#), on page 41
- [aaaRefresh](#), on page 42
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- [configCheckConformance](#), on page 47
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- [configConfRename](#), on page 57
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- [configFindDependencies](#), on page 64
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- [configReleaseResolveContext](#), on page 75
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aaaChangeSelfPassword

The `aaaChangeSelfPassword` method changes the user's own password. The user supplies the old password for authentication, the new password, and a confirmation of the new password. If the user is authenticated successfully with the old password, the new password becomes effective.



Note Cisco UCS Manager Release 4.1(3a) onwards, users can reset their expired password using "null" in cookie.

Request Syntax

```
<xs:element name="aaaChangeSelfPassword" type="aaaChangeSelfPassword"
substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaChangeSelfPassword" mixed="true">
    <xs:attribute name="inUserName">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\.:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inOldPassword">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="0"/>
          <xs:maxLength value="510"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inNewPassword">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="0"/>
          <xs:maxLength value="510"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inConfirmNewPassword">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="0"/>
          <xs:maxLength value="510"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="aaaChangeSelfPassword" type="aaaChangeSelfPassword"
substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaChangeSelfPassword" mixed="true">
    <xs:attribute name="outStatus">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="success"/>
          <xs:enumeration value="failure"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

```

    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>

```

Example 1

Request

```

<aaaChangeSelfPassword
  cookie="<real_cookie>"
  inUserName="admin"
  inOldPassword="Nbv12345"
  inNewPassword="Mbv12345"
  inConfirmNewPassword="Mbv12345" />

```

Response

```

<aaaChangeSelfPassword
  cookie="<real_cookie>"
  response="yes"
  outStatus="success">
</aaaChangeSelfPassword>

```

Example 2

The following example shows how to reset the expired password.

Request

```

<aaaChangeSelfPassword
  cookie="null"
  inUserName="admin"
  inOldPassword="Nbv12345"
  inNewPassword="Mbv12345"
  inConfirmNewPassword="Mbv12345" />

```

Response

```

<aaaChangeSelfPassword
  cookie="<real_cookie>"
  response="yes"
  outStatus="success">
</aaaChangeSelfPassword>

```

aaaCheckComputeAuthToken

The `aaaCheckComputeAuthToken` method gets details on the specified token, such as the user name (who generated this token) and the user's privileges and locales.

Request Syntax

```
<xs:element name="aaaCheckComputeAuthToken" type="aaaCheckComputeAuthToken"
substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaCheckComputeAuthToken" mixed="true">
    <xs:attribute name="inUser">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\.:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inToken" type="xs:string"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="aaaCheckComputeAuthToken" type="aaaCheckComputeAuthToken"
substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaCheckComputeAuthToken" mixed="true">
    <xs:attribute name="outAllow">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="outRemote">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="outAuthUser">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\.:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="outLocales" type="xs:string"/>
    <xs:attribute name="outPriv">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern
value="((ext-lan-policy|pn-maintenance|ls-security-policy|pod-security|pn-equipment|ls-con
fig-policy|ext-san-policy|ls-security|aaa|power-mgmt|read-only|ext-lan-security|ls-config|
```

```

ls-server-policy|pod-qos|pn-policy|ls-storage-policy|admin|ext-san-security|pod-config|ls-
server|ext-lan-qos|ls-storage|ls-qos-policy|operations|ext-lan-config|pn-security|ls-netwo
rk-policy|pod-policy|ext-san-qos|ls-qos|ls-server-oper|ext-san-config|ls-network|ls-ext-ac
cess|fault),) {0,35} (ext-lan-policy|pn-maintenance|ls-security-policy|pod-security|pn-equip
ment|ls-config-policy|ext-san-policy|ls-security|aaa|power-mgmt|read-only|ext-lan-security
|ls-config|ls-server-policy|pod-qos|pn-policy|ls-storage-policy|admin|ext-san-security|pod
-config|ls-server|ext-lan-qos|ls-storage|ls-qos-policy|operations|ext-lan-config|pn-securi
ty|ls-network-policy|pod-policy|ext-san-qos|ls-qos|ls-server-oper|ext-san-config|ls-networ
k|ls-ext-access|fault){0,1}"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="cookie" type="xs:string"/>
<xs:attribute name="response" type="YesOrNo"/>
<xs:attribute name="errorCode" type="xs:unsignedInt"/>
<xs:attribute name="errorDescr" type="xs:string"/>
<xs:attribute name="invocationResult" type="xs:string"/>
</xs:complexType>

```

Examples

Request

```

<aaaCheckComputeAuthToken
  cookie="<real_cookie>"
  inToken="04541875309302299687211"
  inUser="admin"/>

```

Response

```

<aaaCheckComputeAuthToken
  cookie="<real_cookie>"
  response="yes"
  outAllow="yes"
  outRemote="no"
  outAuthUser="admin"
  outLocales=""
  outPriv="admin, read-only">
</aaaCheckComputeAuthToken>

```

aaaCheckComputeExtAccess

The `aaaCheckComputeExtAccess` method validates whether a specified user has access to the server specified with the `inDn` parameter.

Request Syntax

```

<xs:element name="aaaCheckComputeExtAccess" type="aaaCheckComputeExtAccess"
substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaCheckComputeExtAccess" mixed="true">
    <xs:attribute name="inDn" type="referenceObject"/>
    <xs:attribute name="inUser">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\.:_a-zA-Z0-9]{0,16}"/>

```

```

        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="aaaCheckComputeExtAccess" type="aaaCheckComputeExtAccess"
substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaCheckComputeExtAccess" mixed="true">
    <xs:attribute name="outAllow">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>

```

Examples

Request

```

<aaaCheckComputeExtAccess
  cookie="<real_cookie>"
  inDn="sys/Chassis-1/blade-2"
  inUser="gopis"/>

```

Response

```

<aaaCheckComputeExtAccess
  cookie="<real_cookie>"
  response="yes"
  outAllow="no">
</aaaCheckComputeExtAccess>

```

aaaGetNComputeAuthTokenByDn

The `aaaGetNComputeAuthTokenByDn` method returns the authentication tokens for `TokenLogin` to a particular server specified by DN.

Request Syntax

```
<xs:element name="aaaGetNComputeAuthTokenByDn" type="aaaGetNComputeAuthTokenByDn"
substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaGetNComputeAuthTokenByDn" mixed="true">
    <xs:attribute name="inDn">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="0"/>
          <xs:maxLength value="510"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inNumberOf" type="xs:unsignedByte"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="aaaGetNComputeAuthTokenByDn" type="aaaGetNComputeAuthTokenByDn"
substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaGetNComputeAuthTokenByDn" mixed="true">
    <xs:attribute name="outUser">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\.:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="outTokens" type="xs:string"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>
```

Examples

Request

```
<aaaGetNComputeAuthTokenByDn
  cookie="<real_cookie>"
  inDn="sys/chassis-1/blade-2"
  inNumberOf="5"/>
```

Response

```
<aaaGetNComputeAuthTokenByDn
  cookie="<real_cookie>"
  response="yes"
  outUser="__computeToken__"
  outTokens="35505994195216127267211,93595551908527060232451,11769973096057301593991,527
  29538672765491844031,73106643969990280919791">
</aaaGetNComputeAuthTokenByDn>
```

aaaGetComputeAuthTokens

The `aaaGetComputeAuthTokens` method returns authentication tokens that are used to launch the KVM. This generates two temporary authentication tokens that are valid for 60 seconds. The first is the KVM user name and the second token is the password. Using the authorization tokens as credentials, you can access the URL from where you can download the Java Network Launch Protocol (JNLP) file. You can download the JNLP file from the URL and launch it to start a KVM session.



Note

- You cannot obtain tokens if the vKVM option is disabled on the CIMC.
- You must have user or admin privileges to the CIMC to obtain the authentication tokens. Users with read-only privileges will not be able to obtain the tokens.
- The authorization tokens expire is 60 seconds; you cannot use the tokens after 60 seconds to access the URL. If you try to access after 60 seconds, the login fails and you get a authentication failure or timeout message.

Request Syntax

```
<xs:element name="aaaGetComputeAuthTokens" type="aaaGetComputeAuthTokens"
substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaGetComputeAuthTokens" mixed="true">
    <xs:attribute name="cookie" type="stringMin0Max47" use="required"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="aaaGetComputeAuthTokens" type="aaaGetComputeAuthTokens"
substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaGetComputeAuthTokens" mixed="true">
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="outTokens">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="0"/>
          <xs:maxLength value="510"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>
```

Examples

Request:

```
aaaGetComputeAuthTokens
cookie="<real_cookie>" />
```

Response:

```
<aaaGetComputeAuthTokens cookie="<real_cookie>" outTokens="1804289383,846930886"
response="yes"> </aaaGetComputeAuthTokens>
```

aaaKeepAlive

The `aaaKeepAlive` method keeps the session active until the default session time expires, using the same cookie after the method call.

Request Syntax

```
<xs:element name="aaaKeepAlive" type="aaaKeepAlive" substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaKeepAlive" mixed="true">
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="aaaKeepAlive" type="aaaKeepAlive" substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaKeepAlive" mixed="true">
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>
```

Examples

Request

```
<aaaKeepAlive
  cookie="<real_cookie>" />
```

Response

```
<aaaKeepAlive
  cookie="<real_cookie>"
  commCookie="11/15/0/2969"
  srcExtSys="10.193.33.109"
  destExtSys="10.193.33.109"
  srcSvc="sam_extXMLApi"
  destSvc="mgmt-controller_dme"
  response="yes">
</aaaKeepAlive>
```

aaaLogin

The aaaLogin method is the login process and is required to begin a session. This action establishes the HTTP (or HTTPS) session between the client and Cisco UCS.



Note When the password expiry feature is enabled, the aaaLogin API indicates the expiry of password in the XML API response.

Request Syntax

```
<xs:element name="aaaLogin" type="aaaLogin" substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaLogin" mixed="true">
    <xs:attribute name="inName">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\.:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inPassword">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="0"/>
          <xs:maxLength value="510"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="aaaLogin" type="aaaLogin" substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaLogin" mixed="true">
    <xs:attribute name="outCookie" type="xs:string"/>
    <xs:attribute name="outRefreshPeriod" type="xs:unsignedInt"/>
    <xs:attribute name="outPriv">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern
value="((ext-lan-policy|pn-maintenance|ls-security-policy|pod-security|pn-equipment|ls-con
fig-policy|ext-san-policy|ls-security|aaa|power-mgmt|read-only|ext-lan-security|ls-config|
ls-server-policy|pod-qos|pn-policy|ls-storage-policy|admin|ext-san-security|pod-config|ls-
server|ext-lan-qos|ls-storage|ls-qos-policy|operations|ext-lan-config|pn-security|ls-netwo
rk-policy|pod-policy|ext-san-qos|ls-qos|ls-server-oper|ext-san-config|ls-network|ls-ext-ac
cess|fault),){0,35}(ext-lan-policy|pn-maintenance|ls-security-policy|pod-security|pn-equip
ment|ls-config-policy|ext-san-policy|ls-security|aaa|power-mgmt|read-only|ext-lan-security
|ls-config|ls-server-policy|pod-qos|pn-policy|ls-storage-policy|admin|ext-san-security|pod-
config|ls-server|ext-lan-qos|ls-storage|ls-qos-policy|operations|ext-lan-config|pn-securi
ty|ls-network-policy|pod-policy|ext-san-qos|ls-qos|ls-server-oper|ext-san-config|ls-networ
k|ls-ext-access|fault){0,1}"/>
        </xs:restriction>
      </xs:simpleType>
```

```

</xs:attribute>
<xs:attribute name="outDomains" type="xs:string"/>
<xs:attribute name="outChannel">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="fullssl"/>
      <xs:enumeration value="noencssl"/>
      <xs:enumeration value="plain"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="outEvtChannel">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="fullssl"/>
      <xs:enumeration value="noencssl"/>
      <xs:enumeration value="plain"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="outSessionId">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="0"/>
      <xs:maxLength value="32"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="outVersion" type="xs:string"/>
<xs:attribute name="outname" type="xs:string"/>
<xs:attribute name="outPasswdExpiryStatus" type="xs:string"/>
  <xs:enumeration value="None"/>
  <xs:enumeration value="Warning"/>
  <xs:enumeration value="Expired"/>
<xs:attribute name="outPasswdExpiryDuration" type="xs:unsignedInt"/>
<xs:attribute name="cookie" type="xs:string"/>
<xs:attribute name="response" type="YesOrNo"/>
<xs:attribute name="errorCode" type="xs:unsignedInt"/>
<xs:attribute name="errorDescr" type="xs:string"/>
<xs:attribute name="invocationResult" type="xs:string"/>
</xs:complexType>

```

Examples

Request

```

<aaaLogin
  inName="admin"
  inPassword="Nbv12345"/>

```

Response

```

<aaaLogin
  cookie=""
  response="yes"
  outCookie="<real_cookie>"
  outRefreshPeriod="600"
  outPriv="admin, read-only"
  outDomains=""
  outChannel="noencssl"

```

```

    outEvtChannel="noencssl"
    outSessionId="web_41246_A"
    outVersion="1.4 (0.61490)">
    outName="username"
    outPasswdExpiryStatus="None"
    outPasswdExpiryDuration="1"
  </aaaLogin>

```

aaaLogout

The `aaaLogout` method is a process to close a web session by passing the session cookie as input. It is not automatic; the user has to explicitly invoke the `aaaLogout` method to terminate the session.

Request Syntax

```

<xs:element name="aaaLogout" type="aaaLogout" substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaLogout" mixed="true">
    <xs:attribute name="inCookie" type="xs:string"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="aaaLogout" type="aaaLogout" substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaLogout" mixed="true">
    <xs:attribute name="outStatus">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="success"/>
          <xs:enumeration value="failure"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>

```

Examples

Request

```

<aaaLogout
  inCookie="<real_cookie>"/>

```

Response

```

<aaaLogout
  cookie=""

```

```

    response="yes"
    outStatus="success">
  </aaaLogout>

```

aaaRefresh

The `aaaRefresh` method keeps sessions active (within the default session time frame) by user activity. There is a default of 600 seconds that counts down when inactivity begins. If the 600 seconds expire, Cisco UCS enters a sleep mode. It requires signing back in, which restarts the countdown. It continues using the same session ID.



Note

- Using this method expires the previous cookie and issues a new cookie.
- When the password expiry feature is enabled, the `aaaRefreshAPI` indicates the expiry of password in the XML API response.

Request Syntax

```

<xs:element name="aaaRefresh" type="aaaRefresh" substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaRefresh" mixed="true">
    <xs:attribute name="inName">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\.:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inPassword">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="0"/>
          <xs:maxLength value="510"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inCookie" type="xs:string"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="aaaRefresh" type="aaaRefresh" substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaRefresh" mixed="true">
    <xs:attribute name="outCookie" type="xs:string"/>
    <xs:attribute name="outRefreshPeriod" type="xs:unsignedInt"/>
    <xs:attribute name="outPriv">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern
value="( (ext-lan-policy|pn-maintenance|ls-security-policy|pod-security|pn-equipment|ls-con
fig-policy|ext-san-policy|ls-security|aaa|power-mgmt|read-only|ext-lan-security|ls-config|

```

```

ls-server-policy|pod-qos|pn-policy|ls-storage-policy|admin|ext-san-security|pod-config|ls-
server|ext-lan-qos|ls-storage|ls-qos-policy|operations|ext-lan-config|pn-security|ls-netwo
rk-policy|pod-policy|ext-san-qos|ls-qos|ls-server-oper|ext-san-config|ls-network|ls-ext-ac
cess|fault),){0,35}(ext-lan-policy|pn-maintenance|ls-security-policy|pod-security|pn-equip
ment|ls-config-policy|ext-san-policy|ls-security|aaa|power-mgmt|read-only|ext-lan-security
|ls-config|ls-server-policy|pod-qos|pn-policy|ls-storage-policy|admin|ext-san-security|pod
-config|ls-server|ext-lan-qos|ls-storage|ls-qos-policy|operations|ext-lan-config|pn-securi
ty|ls-network-policy|pod-policy|ext-san-qos|ls-qos|ls-server-oper|ext-san-config|ls-networ
k|ls-ext-access|fault){0,1}"/>
</xs:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="outDomains" type="xs:string"/>
<xs:attribute name="outChannel">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="fullssl"/>
      <xs:enumeration value="noencssl"/>
      <xs:enumeration value="plain"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="outEvtChannel">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="fullssl"/>
      <xs:enumeration value="noencssl"/>
      <xs:enumeration value="plain"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="cookie" type="xs:string"/>
<xs:attribute name="response" type="YesOrNo"/>
<xs:attribute name="errorCode" type="xs:unsignedInt"/>
<xs:attribute name="errorDescr" type="xs:string"/>
<xs:attribute name="invocationResult" type="xs:string"/>
<xs:attribute name="outname" type="xs:string"/>
<xs:attribute name="outPasswdExpiryStatus" type="xs:string">
  <xs:enumeration value="None"/>
  <xs:enumeration value="Warning"/>
  <xs:enumeration value="Expired"/>
<xs:attribute name="outPasswdExpiryDuration" type="xs:unsignedInt"/>
</xs:complexType>

```

Examples

Request

```

<aaaRefresh
  cookie="<real_cookie>"
  inName="admin"
  inPassword="Nbv12345"
  inCookie="<real_cookie>"/>

```

Response

```

<aaaRefresh
  cookie="<real_cookie>"
  commCookie="" srcExtSys="0.0.0.0"
  destExtSys="0.0.0.0"

```

```

srcSvc=""
destSvc=""
response="yes"
outCookie="<real_cookie>"
outRefreshPeriod="7200"
outPriv="admin"
outDomains=""
outChannel="fullssl"
outEvtChannel="fullssl">
outName="username"
outPasswdExpiryStatus="None"
outPasswdExpiryDuration="1"
</aaaRefresh>

```

aaaTokenLogin

The `aaaTokenLogin` method allows access to the user based on the token passed. These tokens authenticate the user instead of using the password to allow access to the system. Tokens are generated by `aaaGetNComputeAuthToken` method.

Request Syntax

```

<xs:element name="aaaTokenLogin" type="aaaTokenLogin" substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaTokenLogin" mixed="true">
    <xs:attribute name="inName">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\.:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inToken">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="0"/>
          <xs:maxLength value="510"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="aaaTokenLogin" type="aaaTokenLogin" substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaTokenLogin" mixed="true">
    <xs:attribute name="outCookie" type="xs:string"/>
    <xs:attribute name="outRefreshPeriod" type="xs:unsignedInt"/>
    <xs:attribute name="outPriv">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern
value="((ext-lan-policy|pn-maintenance|ls-security-policy|pod-security|pn-equipment|ls-con
fig-policy|ext-san-policy|ls-security|aaa|power-mgmt|read-only|ext-lan-security|ls-config|
ls-server-policy|pod-qos|pn-policy|ls-storage-policy|admin|ext-san-security|pod-config|ls-

```

```

server|ext-lan-qos|ls-storage|ls-qos-policy|operations|ext-lan-config|pn-security|ls-netwo
rk-policy|pod-policy|ext-san-qos|ls-qos|ls-server-oper|ext-san-config|ls-network|ls-ext-ac
cess|fault),) {0,35} (ext-lan-policy|pn-maintenance|ls-security-policy|pod-security|pn-equip
ment|ls-config-policy|ext-san-policy|ls-security|aaa|power-mgmt|read-only|ext-lan-security
|ls-config|ls-server-policy|pod-qos|pn-policy|ls-storage-policy|admin|ext-san-security|pod
-config|ls-server|ext-lan-qos|ls-storage|ls-qos-policy|operations|ext-lan-config|pn-securi
ty|ls-network-policy|pod-policy|ext-san-qos|ls-qos|ls-server-oper|ext-san-config|ls-networ
k|ls-ext-access|fault) {0,1}"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="outDomains" type="xs:string"/>
<xs:attribute name="outChannel">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="fullssl"/>
      <xs:enumeration value="noencssl"/>
      <xs:enumeration value="plain"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="outEvtChannel">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="fullssl"/>
      <xs:enumeration value="noencssl"/>
      <xs:enumeration value="plain"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="outSessionId">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="0"/>
      <xs:maxLength value="32"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="outVersion" type="xs:string"/>
<xs:attribute name="cookie" type="xs:string"/>
<xs:attribute name="response" type="YesOrNo"/>
<xs:attribute name="errorCode" type="xs:unsignedInt"/>
<xs:attribute name="errorDescr" type="xs:string"/>
<xs:attribute name="invocationResult" type="xs:string"/>
</xs:complexType>

```

Examples

Request

```

<aaaTokenLogin
  inName="admin"
  inToken="80278502964410805791351" />

```

Response

```

<aaaTokenLogin cookie=""
  response="yes"
  outCookie="<real_cookie>"
  outRefreshPeriod="600"

```

```

    outPriv="admin, read-only"
    outDomains=""
    outChannel="noencssl"
    outEvtChannel="noencssl"
    outSessionId="web_49374_A"
    outVersion="1.4(0.61490)"
  </aaaTokenLogin>

```

aaaTokenRefresh

The `aaaTokenRefresh` method refreshes the current `TokenLogin` session.



Note When the password expiry feature is enabled and of if the user password is expired, the `aaaTokenRefresh` API indicates the expiry of password in the failure XML API response.

Request Syntax

```

<xs:element name="aaaTokenRefresh" type="aaaTokenRefresh"
substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaTokenRefresh" mixed="true">
    <xs:attribute name="inName">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\.:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inCookie" type="xs:string"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="aaaTokenRefresh" type="aaaTokenRefresh"
substitutionGroup="externalMethod"/>
  <xs:complexType name="aaaTokenRefresh" mixed="true">
    <xs:attribute name="outCookie" type="xs:string"/>
    <xs:attribute name="outRefreshPeriod" type="xs:unsignedInt"/>
    <xs:attribute name="outPriv">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern
value="( (ext-lan-policy|pn-maintenance|ls-security-policy|pod-security|pn-equipment|ls-con
fig-policy|ext-san-policy|ls-security|aaa|power-mgmt|read-only|ext-lan-security|ls-config|
ls-server-policy|pod-qos|pn-policy|ls-storage-policy|admin|ext-san-security|pod-config|ls-
server|ext-lan-qos|ls-storage|ls-qos-policy|operations|ext-lan-config|pn-security|ls-netwo
rk-policy|pod-policy|ext-san-qos|ls-qos|ls-server-oper|ext-san-config|ls-network|ls-ext-ac
cess|fault), ) {0,35} (ext-lan-policy|pn-maintenance|ls-security-policy|pod-security|pn-equip
ment|ls-config-policy|ext-san-policy|ls-security|aaa|power-mgmt|read-only|ext-lan-security
|ls-config|ls-server-policy|pod-qos|pn-policy|ls-storage-policy|admin|ext-san-security|pod-
config|ls-server|ext-lan-qos|ls-storage|ls-qos-policy|operations|ext-lan-config|pn-securi
ty|ls-network-policy|pod-policy|ext-san-qos|ls-qos|ls-server-oper|ext-san-config|ls-networ

```

```

k|ls-ext-access|fault){0,1}"/>
  </xs:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="outDomains" type="xs:string"/>
<xs:attribute name="outChannel">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="fullssl"/>
      <xs:enumeration value="noencssl"/>
      <xs:enumeration value="plain"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="outEvtChannel">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="fullssl"/>
      <xs:enumeration value="noencssl"/>
      <xs:enumeration value="plain"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="cookie" type="xs:string"/>
<xs:attribute name="response" type="YesOrNo"/>
<xs:attribute name="errorCode" type="xs:unsignedInt"/>
<xs:attribute name="errorDescr" type="xs:string"/>
<xs:attribute name="invocationResult" type="xs:string"/>
</xs:complexType>

```

Examples

Request

```

<aaaTokenRefresh
  inName="admin"
  inCookie="<real_cookie>" />

```

Response

```

<aaaTokenRefresh
  cookie=""
  response="yes"
  outCookie="<real_cookie>"
  outRefreshPeriod="600"
  outPriv="admin, read-only"
  outDomains=""
  outChannel="noencssl"
  outEvtChannel="noencssl"
</aaaTokenRefresh>

```

configCheckConformance

The configCheckConformance method checks if the given distributable (firmware package) can be used against the running Cisco UCS Manager version.

Request Syntax

```
<xs:element name="configCheckConformance" type="configCheckConformance"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configCheckConformance" mixed="true">
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="configCheckConformance" type="configCheckConformance"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configCheckConformance" mixed="true">
    <xs:all>
      <xs:element name="outConfDns" type="dnSet" minOccurs="0"/>
      <xs:element name="outToResetDns" type="dnSet" minOccurs="0"/>
      <xs:element name="outNonConfDns" type="dnSet" minOccurs="0"/>
      <xs:element name="outInProgressDns" type="dnSet" minOccurs="0"/>
      <xs:element name="outNonUpgradableDns" type="dnSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>
```

Examples

Request

```
<configCheckConformance
  dn="sys/fw-catalogue/distrib-ucs-k9-bundle-b-series.2.0.0.528.gbin"
  cookie="<real_cookie>"
/>
```

Response

```
<configCheckConformance
  dn="sys/fw-catalogue/distrib-ucs-k9-bundle-b-series.2.0.0.528.gbin"
  cookie="<real_cookie>"
  response="yes"
  errorCode="0"
  errorDescr=""
  <outConfDns>
    <dn value="sys/chassis-1/blade-5/mgmt/fw-system"/>
    <dn value="sys/chassis-1/blade-5/bios/fw-boot-loader"/>
    <dn value="sys/chassis-1/blade-3/boardController/mgmt/fw-system"/>
  </outConfDns>
  <outToResetDns>
  </outToResetDns>
  <outNonConfDns>
    <dn value="sys/chassis-1/blade-1/mgmt/fw-system"/>
  </outNonConfDns>
```

```

<dn value="sys/chassis-1/blade-3/mgmt/fw-system"/>
<dn value="sys/chassis-1/blade-1/bios/fw-boot-loader"/>
<dn value="sys/chassis-1/blade-3/bios/fw-boot-loader"/>
<dn value="sys/chassis-1/blade-3/adaptor-1/mgmt/fw-system"/>
<dn value="sys/chassis-1/blade-1/adaptor-2/mgmt/fw-system"/>
<dn value="sys/chassis-1/blade-1/adaptor-1/mgmt/fw-system"/>
<dn value="sys/chassis-1/blade-3/adaptor-2/mgmt/fw-system"/>
<dn value="sys/chassis-1/blade-5/adaptor-1/mgmt/fw-system"/>
<dn value="sys/chassis-1/blade-3/board/storage-SAS-1/fw-system"/>
</outNonConfDns>
<outInProgressDns>
</outInProgressDns>
<outNonUpgradableDns>
</outNonUpgradableDns>
</configCheckConformance>

```

configCheckFirmwareUpdatable

The `configCheckFirmwareUpdatable` method checks if firmware in certain components can be updated or activated. The method is triggered every time a user initiates an update or activate process.

For example, if a user tries to update the firmware version of an endpoint for which a firmware policy is specified as part of a service profile (either a host firmware pack or management firmware pack), the operation is disallowed. This method performs the validation.

Request Syntax

```

<xs:element name="configCheckFirmwareUpdatable" type="configCheckFirmwareUpdatable"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configCheckFirmwareUpdatable" mixed="true">
    <xs:all>
      <xs:element name="inUpdatableDns" type="dnSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="configCheckFirmwareUpdatable" type="configCheckFirmwareUpdatable"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configCheckFirmwareUpdatable" mixed="true">
    <xs:all>
      <xs:element name="outPassDns" type="dnSet" minOccurs="0"/>
      <xs:element name="outFailDns" type="dnSet" minOccurs="0"/>
      <xs:element name="outInvalidDns" type="dnSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>

```

Examples

Request

```
<configCheckFirmwareUpdatable
  cookie="<real_cookie>"
  <inUpdatableDns>
    <dn value="sys/chassis-1/blade-5/mgmt/fw-updatable"/>
    <dn value="sys/chassis-1/blade-5/adaptor-2/mgmt/fw-updatable"/>
    <dn value="sys/chassis-1/blade-2/mgmt/fw-updatable"/>
    <dn value="sys/chassis-1/blade-2/adaptor-1/mgmt/fw-updatable"/>
    <dn value="sys/chassis-1/blade-1/mgmt/fw-updatable"/>
    <dn value="sys/chassis-1/blade-3/mgmt/fw-updatable"/>
    <dn value="sys/chassis-1/blade-3/adaptor-2/mgmt/fw-updatable"/>
    <dn value="sys/chassis-1/blade-1/adaptor-1/mgmt/fw-updatable"/>
  </inUpdatableDns>
</configCheckFirmwareUpdatable>
```

Response

```
<configCheckFirmwareUpdatable
  cookie="<real_cookie>"
  response="yes"
  <outPassDns>
    <dn value="sys/chassis-1/blade-1/mgmt/fw-updatable"/>
    <dn value="sys/chassis-1/blade-2/mgmt/fw-updatable"/>
    <dn value="sys/chassis-1/blade-3/mgmt/fw-updatable"/>
    <dn value="sys/chassis-1/blade-5/mgmt/fw-updatable"/>
  </outPassDns>
  <outFailDns>
    <dn value="sys/chassis-1/blade-5/adaptor-2/mgmt/fw-updatable"/>
    <dn value="sys/chassis-1/blade-2/adaptor-1/mgmt/fw-updatable"/>
    <dn value="sys/chassis-1/blade-1/adaptor-1/mgmt/fw-updatable"/>
    <dn value="sys/chassis-1/blade-3/adaptor-2/mgmt/fw-updatable"/>
  </outFailDns>
  <outInvalidDns>
  </outInvalidDns>
</configCheckFirmwareUpdatable>
```

configConfFiltered

The configConfFiltered method limits data and activity according to the configured policies.

Request Syntax

```
<xs:element name="configConfFiltered" type="configConfFiltered"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="configConfFiltered" mixed="true">
    <xs:all>
      <xs:element name="inFilter" type="filterFilter" minOccurs="0"/>
      <xs:element name="inConfig" type="configConfig" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
```

```

        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="no"/>
            <xs:enumeration value="yes"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:union>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="cookie" type="xs:string"/>
  <xs:attribute name="response" type="YesOrNo"/>
  <xs:attribute name="classId" type="namingClassId"/>
</xs:complexType>

```

Response Syntax

```

<xs:element name="configConfFiltered" type="configConfFiltered"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configConfFiltered" mixed="true">
    <xs:all>
      <xs:element name="outConfigs" type="configSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="classId" type="namingClassId"/>
  </xs:complexType>

```

Examples

Request

```

<configConfFiltered
  cookie="<real_cookie>"
  inHierarchical="false"
  classId="orgOrg">
  <inFilter>
    <eq class="orgOrg"
      property="name"
      value="root" />
  </inFilter>
</configConfFiltered>

```

Response

```

<configConfFiltered
  cookie="<real_cookie>"
  commCookie="5/15/0/617"
  srcExtSys="10.193.33.206"
  destExtSys="10.193.33.206"
  srcSvc="sam_extXMLApi"
  destSvc="resource-mgr_dme"
  response="yes"
  classId="orgOrg">
  <outConfigs>
    <orgDatacenter

```

```

    descr="HR (Human Resources- new Descr)"
    dn="org-root/org-Cisco/org-HR"
    fltAggr="0"
    level="2"
    name="HR"
    status="modified"/>
  </outConfigs>
</configConfFiltered>

```

configConfMo

The configConfMo method configures the specified managed object in a single subtree (for example, DN).

Request Syntax

```

<xs:element name="configConfMo" type="configConfMo" substitutionGroup="externalMethod"/>
  <xs:complexType name="configConfMo" mixed="true">
    <xs:all>
      <xs:element name="inConfig" type="configConfig" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:attribute>
      <xs:attribute name="cookie" type="xs:string"/>
      <xs:attribute name="response" type="YesOrNo"/>
      <xs:attribute name="dn" type="referenceObject"/>
    </xs:complexType>

```

Response Syntax

```

<xs:element name="configConfMo" type="configConfMo" substitutionGroup="externalMethod"/>
  <xs:complexType name="configConfMo" mixed="true">
    <xs:all>
      <xs:element name="outConfig" type="configConfig" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Examples

Request

```
<configConfMo
  dn=""
  cookie="<real_cookie>"
  inHierarchical="false">
<inConfig>
  <aaaLdapEp
    attribute="CiscoAvPair"
    basedn="dc=pasadena,dc=cisco,dc=com"
    descr=""
    dn="sys/ldap-ext"
    filter="sAMAccountName=$userid"
    retries="1"
    status="modified"
    timeout="30"/>
</inConfig>
</configConfMo>
```

Response

```
<configConfMo
  dn=""
  cookie="<real_cookie>"
  commCookie="11/15/0/28"
  srcExtSys="10.193.33.101"
  destExtSys="10.193.33.101"
  srcSvc="sam_extXMLApi"
  destSvc="mgmt-controller_dme"
  response="yes">
<outConfig>
  <aaaLdapEp
    attribute="CiscoAvPair"
    basedn="dc=pasadena,dc=cisco,dc=com"
    childAction="deleteNonPresent"
    descr=""
    dn="sys/ldap-ext"
    filter="sAMAccountName=$userid"
    fsmDescr=""
    fsmPrev="updateEpSuccess"
    fsmProgr="100"
    fsmStageDescr=""
    fsmStamp="2010-11-22T23:41:01.826"
    fsmStatus="nop"
    fsmTry="0"
    intId="10027"
    name=""
    retries="1"
    status="modified"
    timeout="30"/>
</outConfig>
</configConfMo>
```

configConfMoGroup

The configConfMoGroup method configures groups of managed objects based upon the configured policies.

Request Syntax

```
<xs:element name="configConfMoGroup" type="configConfMoGroup"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configConfMoGroup" mixed="true">
    <xs:all>
      <xs:element name="inDns" type="dnSet" minOccurs="0"/>
      <xs:element name="inConfig" type="configConfig" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:attribute>
      <xs:attribute name="cookie" type="xs:string"/>
      <xs:attribute name="response" type="YesOrNo"/>
    </xs:complexType>
```

Response Syntax

```
<xs:element name="configConfMoGroup" type="configConfMoGroup"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configConfMoGroup" mixed="true">
    <xs:all>
      <xs:element name="outConfigs" type="configSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>
```

Examples



Note The descr property of orgDataCenter (under org-root/org-Cisco and org-root/org-Soda) is modified. Because the descr property is not implicit, it can be modified. If implicit, the modification does not apply and a new orgDataCenter is created.

Request

```
<configConfMoGroup
  cookie="<real_cookie>"
  inHierarchical="false">
  <inDns>
    <dn value="org-root/org-Cisco" />
    <dn value="org-root/org-Soda" />
  </inDns>
  <inConfig>
    <orgDatacenter dn="org-HR" descr="HR (Human Resources)" />
  </inConfig>
</configConfMoGroup>
```

Response

```
<configConfMoGroup
  cookie="<real_cookie>"
  commCookie="5/15/0/600"
  srcExtSys="10.193.33.206"
  destExtSys="10.193.33.206"
  srcSvc="sam_extXMLApi"
  destSvc="resource-mgr_dme"
  response="yes">
  <outConfigs>
    <orgDatacenter
      descr="HR (Human Resources)"
      dn="org-root/org-Soda/org-HR"
      fltAggr="0"
      level="2"
      name="HR"
      status="modified"/>
    <orgDatacenter
      descr="HR (Human Resources)"
      dn="org-root/org-Cisco/org-HR"
      fltAggr="0"
      level="2"
      name="HR"
      status="modified"/>
  </outConfigs>
</configConfMoGroup>
```

configConfMos

The configConfMos method configures managed objects in multiple subtrees using DNs.

Request Syntax

```
<xs:element name="configConfMos" type="configConfMos" substitutionGroup="externalMethod"/>
  <xs:complexType name="configConfMos" mixed="true">
    <xs:all>
      <xs:element name="inConfigs" type="configMap" minOccurs="0">
        <xs:unique name="unique_map_key_2">
          <xs:selector xpath="pair"/>
          <xs:field xpath="@key"/>
        </xs:unique>
      </xs:element>
```

```

</xs:all>
<xs:attribute name="inHierarchical">
  <xs:simpleType>
    <xs:union memberTypes="xs:boolean">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="no"/>
          <xs:enumeration value="yes"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:union>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="cookie" type="xs:string"/>
<xs:attribute name="response" type="YesOrNo"/>
</xs:complexType>

```

Response Syntax

```

<xs:element name="configConfMos" type="configConfMos" substitutionGroup="externalMethod"/>
<xs:complexType name="configConfMos" mixed="true">
  <xs:all>
    <xs:element name="outConfigs" type="configMap" minOccurs="0">
      <xs:unique name="unique_map_key_5">
        <xs:selector xpath="pair"/>
        <xs:field xpath="@key"/>
      </xs:unique>
    </xs:element>
  </xs:all>
  <xs:attribute name="cookie" type="xs:string"/>
  <xs:attribute name="response" type="YesOrNo"/>
  <xs:attribute name="errorCode" type="xs:unsignedInt"/>
  <xs:attribute name="errorDescr" type="xs:string"/>
  <xs:attribute name="invocationResult" type="xs:string"/>
</xs:complexType>

```

Examples

Request

```

<configConfMos
  cookie="<real_cookie>"
  <inConfigs>
    <pair key="org-root/logprof-default">
      <policyLogProfile dn="org-root/logprof-default"
        name="default"
        level="debug1"
        size="1000000"
        backupCount="4"/>
    </pair>

    <!-- Update Controller Device Profile -->
    <pair key="org-root/controller-profile-default">
      <policyControllerDeviceProfile
        dn="org-root/controller-profile-default"
        adminState="enabled">
        .
        <commDnsProvider hostip="171.70.168.183" order="1"/>
        <commDnsProvider hostip="171.68.226.120" order="2"/>
      </policyControllerDeviceProfile>
    </pair>
  </inConfigs>
</configConfMos>

```

```

        <commDnsProvider hostip="64.102.6.247" order="3"/>
    </policyControllerDeviceProfile>
</pair>
</inConfigs>
</configConfMos>

```

Response

```

<configConfMos
  cookie="<real_cookie>"
  commCookie="7/15/0/1a74"
  srcExtSys="10.193.34.70"
  destExtSys="10.193.34.70"
  srcSvc="sam_extXMLApi"
  destSvc="policy-mgr_dme"
  response="yes">
<outConfigs>
  <pair key="org-root/logprof-default">
    <policyLogProfile
      adminState="enabled"
      backupCount="4"
      descr="the log level for every process"
      dn="org-root/logprof-default"
      intId="10065"
      level="debug1"
      name="default"
      size="10000000"/>
    </pair>
    <pair key="org-root/controller-profile-default">
      .
    </pair>
  </outConfigs>
</configConfMos>

```

configConfRename

The configConfRename method is used to rename a service or chassis profile.

Request Syntax

```

<xs:element name="configConfRename" type="configConfRename"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="configConfRename" mixed="true">
    <xs:attribute name="inNewName" type="xs:string"/>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>

```

```

        <xs:attribute name="dn" type="referenceObject"/>
    </xs:complexType>

```

Response Syntax

```

<xs:element name="configConfRename" type="configConfRename"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configConfRename" mixed="true">
    <xs:all>
      <xs:element name="outConfig" type="configConfig" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Examples

Request

```

<configConfRename
dn="org-root/cp-TestnewName"
cookie="<real_cookie>"
inNewName="testCP">
</configConfRename>

```

Response

```

<configConfRename dn="org-root/cp-TestnewName"
cookie="<real_cookie>" response="yes">
<outConfig>
<equipmentChassisProfile assignState="unassigned" assocState="unassociated"
chassisDn="" chassisFwPolicyName="" configQualifier="" configState="not-applied"
descr="" diskZoningPolicyName="" dn="org-root/cp-testCP" fltAggr="0" fsmDescr=""
fsmFlags="" fsmPrev="ConfigureSuccess" fsmProgr="100" fsmRmtInvErrCode="none"
fsmRmtInvErrDescr="" fsmRmtInvRslt="" fsmStageDescr="" fsmStamp="2016-08-31T21:33:09.959"
fsmStatus="nop" fsmTry="0" intId="6090789" maintPolicyName="" name="testCP"
operChassisFwPolicyName="org-root/fw-chassis-pack-default"
operDiskZoningPolicyName="org-root/disk-zoning-policy-default"
operMaintPolicyName="org-root/chassis-profile-maint-default" operSrcTemplName=""
operState="unassociated" owner="management" policyLevel="0" policyOwner="local"
propAcl="0" resolveRemote="yes" srcTemplName="" status="created" type="instance"
usrLbl="" uuid="00000000-0000-0000-0000-000000000000"/>
</outConfig>
</configConfRename>

```

configCountClass

The `configCountClass` method is used to know the number of instances of a class with or without a filter.

Request Syntax

```

<xs:element name="configCountClass" type="configCountClass"
substitutionGroup="externalMethod"/>

```

```

<xs:complexType name="configCountClass" mixed="true">
  <xs:all>
    <xs:element name="inFilter" type="filterFilter" minOccurs="0"/>
  </xs:all>
  <xs:attribute name="inHierarchical">
    <xs:simpleType>
      <xs:union memberTypes="xs:boolean">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="no"/>
            <xs:enumeration value="yes"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:union>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="cookie" type="xs:string"/>
  <xs:attribute name="response" type="YesOrNo"/>
  <xs:attribute name="classId" type="namingClassId"/>
</xs:complexType>

```

Response Syntax

```

<xs:element name="configCountClass" type="configCountClass"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configCountClass" mixed="true">
    <xs:attribute name="outCount" type="xs:unsignedLong"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="classId" type="namingClassId"/>
  </xs:complexType>

```

Examples

Request

```

<configCountClass
classId="computeItem"
cookie="<real cookie>">
  </configCountClass>

```

Response

```

<configCountClass cookie="<real cookie>"
response="yes"
classId="computeItem"
outCount="2">
</configCountClass>

```

configEstimateConfMos

The configEstimateConfMos method

Request Syntax

```

<xs:element name="configEstimateConfMos" type="configEstimateConfMos"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configEstimateConfMos" mixed="true">
    <xs:all>
      <xs:element name="inConfigs" type="configMap" minOccurs="0">
        <xs:unique name="unique_map_key_2">
          <xs:selector xpath="pair"/>
          <xs:field xpath="@key"/>
        </xs:unique>
      </xs:element>
    </xs:all>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="configEstimateConfMos" type="configEstimateConfMos"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configEstimateConfMos" mixed="true">
    <xs:all>
      <xs:element name="outConfigs" type="configMap" minOccurs="0">
        <xs:unique name="unique_map_key_6">
          <xs:selector xpath="pair"/>
          <xs:field xpath="@key"/>
        </xs:unique>
      </xs:element>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>

```

Examples

Request

Response

configEstimateImpact

The `configEstimateImpact` method estimates the impact of a set of managed objects modifications in terms of disruption of running services. For example, modifying the UUID pool used by an updating template might require rebooting servers associated to service profiles instantiated from the template.

User can estimate the impact of a change set by passing the set to the method and inspecting the output parameters. Output parameters are a set of affected service profiles (before and after the changes) and the corresponding ack object for each service profile.

Ack objects contain the following information:

- Whether the changes are disruptive (for example, require reboot of the server associated to the service profile).
- Summary of changes.
- When changes are applied (immediately, after user ack, during scheduled occurrence of a maintenance window).
- Date and time at which such changes were made and by whom.

Cisco UCS returns the ack objects before and after the changes are applied. This information helps determine whether some changes were already pending on the service profile. This condition can occur when maintenance policies are used.

The parameters are defined as:

- `configs`—Set of changes to be evaluated (add, delete, or modify managed objects).
- `affected`—Affected service profiles after the changes have been applied (not hierarchical).
- `oldAffected`—Affected service profiles before applying changes (not hierarchical).
- `ackables`—Content of the ack object associated to the service profiles, after applying the changes.
- `oldAckables`—Content of the ack object associated to the service profiles, before applying the changes.

Request Syntax

```
<xs:element name="configEstimateImpact" type="configEstimateImpact"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configEstimateImpact" mixed="true">
    <xs:all>
      <xs:all>
        <xs:element name="inConfigs" type="configMap" minOccurs="0">
          <xs:unique name="unique_map_key_3">
            <xs:selector xpath="pair"/>
            <xs:field xpath="@key"/>
          </xs:unique>
        </xs:element>
      </xs:all>
      <xs:attribute name="cookie" type="xs:string"/>
      <xs:attribute name="response" type="YesOrNo"/>
    </xs:complexType>
```

Response Syntax

```
<xs:element name="configEstimateImpact" type="configEstimateImpact"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configEstimateImpact" mixed="true">
    <xs:all>
      <xs:element name="outAckables" type="configMap" minOccurs="0">
        <xs:unique name="unique_map_key_6">
          <xs:selector xpath="pair"/>
          <xs:field xpath="@key"/>
        </xs:unique>
      </xs:element>
      <xs:element name="outOldAckables" type="configMap" minOccurs="0">
        <xs:unique name="unique_map_key_7">
          <xs:selector xpath="pair"/>
          <xs:field xpath="@key"/>
        </xs:unique>
      </xs:element>
      <xs:element name="outAffected" type="configMap" minOccurs="0">
        <xs:unique name="unique_map_key_8">
          <xs:selector xpath="pair"/>
          <xs:field xpath="@key"/>
        </xs:unique>
      </xs:element>
      <xs:element name="outOldAffected" type="configMap" minOccurs="0">
        <xs:unique name="unique_map_key_9">
          <xs:selector xpath="pair"/>
          <xs:field xpath="@key"/>
        </xs:unique>
      </xs:element>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>
```

Examples

Request

```
<configEstimateImpact
  cookie="<real_cookie>"
  <inConfigs>
    <pair key="org-root/ls-template-3">
      <lsServer
        agentPolicyName=""
        biosProfileName=""
        bootPolicyName=""
        descr=""
        dn="org-root/ls-template-3"
        dynamicConPolicyName=""
        extIPState="none"
        hostFwPolicyName=""
        identPoolName="default"
        localDiskPolicyName=""
        maintPolicyName=""
        mgmtAccessPolicyName=""
        mgmtFwPolicyName=""
```

```

        name="template-3"
        powerPolicyName="default"
        scrubPolicyName=""
        solPolicyName=""
        srcTemplName=""
        statsPolicyName="default"
        status="created"
        type="updating-template"
        usrLbl=""
        uuid="derived"
        vconProfileName=""/>
    </pair>
</inConfigs>
</configEstimateImpact>

```

Response

```

<configEstimateImpact
  cookie="<real_cookie>"
  response="yes"
  errorCode="0"
  errorDescr="">
  <outAckables>
</outAckables>
  <outOldAckables>
</outOldAckables>
  <outAffected>
    <pair key="org-root/ls-template-3">
      <lsServer
        agentPolicyName=""
        assignState="unassigned"
        assocState="unassociated"
        biosProfileName=""
        bootPolicyName=""
        configQualifier=""
        configState="not-applied"
        descr=""
        dn="org-root/ls-template-3"
        dynamicConPolicyName=""
        extIPState="none"
        fltAggr="0"
        hostFwPolicyName=""
        identPoolName="default"
        intId="52359"
        localDiskPolicyName=""
        maintPolicyName=""
        mgmtAccessPolicyName=""
        mgmtFwPolicyName=""
        name="template-3"
        operBiosProfileName=""
        operBootPolicyName="org-root/boot-policy-default"
        operDynamicConPolicyName=""
        operHostFwPolicyName=""
        operIdentPoolName="org-root/uuid-pool-default"
        operLocalDiskPolicyName="org-root/local-disk-config-default"
        operMaintPolicyName="org-root/maint-default"
        operMgmtAccessPolicyName=""
        operMgmtFwPolicyName=""
        operPowerPolicyName="org-root/power-policy-default"
        operScrubPolicyName="org-root/scrub-default"
        operSolPolicyName=""
        operSrcTemplName=""
        operState="unassociated"

```

```

        operStatsPolicyName="org-root/thr-policy-default"
        operVconProfileName=""
        owner="management"
        pnDn=""
        powerPolicyName="default"
        scrubPolicyName=""
        solPolicyName=""
        srcTemplName=""
        statsPolicyName="default"
        status="created"
        type="updating-template"
        usrLbl=""
        uuid="derived"
        uuidSuffix="0000-000000000000"
        vconProfileName=""/>
    </pair>
</outAffected>
<outOldAffected>
  <pair key="org-root/ls-template-3">
    <lsServer
      .
    ./>
  </pair>
</outOldAffected>
</configEstimateImpact>

```

configFindDependencies

The `configFindDependencies` method returns the device policy details for a specified policy.

Request Syntax

```

<xs:element name="configFindDependencies" type="configFindDependencies"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="configFindDependencies" mixed="true">
    <xs:attribute name="inReturnConfigs">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:attribute>
      <xs:attribute name="cookie" type="xs:string"/>
      <xs:attribute name="response" type="YesOrNo"/>
      <xs:attribute name="dn" type="referenceObject"/>
    </xs:complexType>

```

Response Syntax

```

<xs:element name="configFindDependencies" type="configFindDependencies"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="configFindDependencies" mixed="true">

```

```

<xs:all>
  <xs:element name="outConfigs" type="configSet" minOccurs="0"/>
</xs:all>
<xs:attribute name="outHasDep">
  <xs:simpleType>
    <xs:union memberTypes="xs:boolean">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="no"/>
          <xs:enumeration value="yes"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:union>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="cookie" type="xs:string"/>
<xs:attribute name="response" type="YesOrNo"/>
<xs:attribute name="errorCode" type="xs:unsignedInt"/>
<xs:attribute name="errorDescr" type="xs:string"/>
<xs:attribute name="invocationResult" type="xs:string"/>
<xs:attribute name="dn" type="referenceObject"/>
</xs:complexType>

```

Examples

Request

```

<configFindDependencies
  dn="org-root/fw-host-pack-host-pack-6625"
  cookie="<real_cookie>"
  inReturnConfigs="yes">
</configFindDependencies>

```

Response

```

<configFindDependencies
  dn="org-root/fw-host-pack-host-pack-6625"
  cookie="<real_cookie>"
  response="yes"
  errorCode="0"
  errorDescr=""
  outHasDep="yes">
  <outConfigs>
    <lsServer
      agentPolicyName=""
      assignState="assigned"
      assocState="associated"
      biosProfileName=""
      bootPolicyName=""
      configQualifier=""
      configState="applied"
      descr=""
      dn="org-root/ls-service-profile-5"
      dynamicConPolicyName=""
      extIPState="none"
      fltAggr="0"
      fsmDescr=""
      fsmFlags=""
      fsmPrev="ConfigureSuccess"
      fsmProgr="100"
    >
  </outConfigs>
</configFindDependencies>

```

```

    fsmRmtInvErrCode="none"
    fsmRmtInvErrDescr=""
    fsmRmtInvRslt=""
    fsmStageDescr=""
    fsmStamp="2011-01-10T23:51:28.310"
    fsmStatus="nop"
    fsmTry="0"
    hostFwPolicyName="host-pack-6625"
    identPoolName=""
    intId="29191" localDiskPolicyName=""
    maintPolicyName=""
    mgmtAccessPolicyName=""
    mgmtFwPolicyName="m-firmware-1"
    name="service-profile-5"
    operBiosProfileName=""
    operBootPolicyName="org-root/boot-policy-default"
    operDynamicConPolicyName=""
    operHostFwPolicyName="org-root/fw-host-pack-host-pack-6625"
    operIdentPoolName="org-root/uuid-pool-default"
    operLocalDiskPolicyName="org-root/local-disk-config-default"
    operMaintPolicyName="org-root/maint-default"
    operMgmtAccessPolicyName=""
    operMgmtFwPolicyName="org-root/fw-mgmt-pack-m-firmware-1"
    operPowerPolicyName="org-root/power-policy-default"
    operScrubPolicyName="org-root/scrub-default"
    operSolPolicyName=""
    operSrcTemplName=""
    operState="ok"
    operStatsPolicyName="org-root/thr-policy-default"
    operVconProfileName=""
    owner="management"
    pnDn="sys/chassis-1/blade-5"
    powerPolicyName="default"
    scrubPolicyName=""
    solPolicyName=""
    srcTemplName=""
    statsPolicyName="default"
    type="instance"
    usrLbl=""
    uuid="derived"
    uuidSuffix="0000-000000000000"
    vconProfileName=""/>
  </outConfigs>
</configFindDependencies>

```

configFindDnsByClassId

The configFindDnsByClassId method finds distinguished names and returns them sorted by class ID.

Request Syntax

```

<xs:element name="configFindDnsByClassId" type="configFindDnsByClassId"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configFindDnsByClassId" mixed="true">
    <xs:all>
      <xs:element name="inFilter" type="filterFilter" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>

```

```

    <xs:attribute name="classId" type="namingClassId"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="configFindDnsByClassId" type="configFindDnsByClassId"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configFindDnsByClassId" mixed="true">
    <xs:all>
      <xs:element name="outDns" type="dnSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="classId" type="namingClassId"/>
  </xs:complexType>

```

Examples

Request

```

<configFindDnsByClassId
  classId="computeItem"
  cookie="<real_cookie>" />

```

Response

```

<configFindDnsByClassId
  cookie="<real_cookie>"
  response="yes"
  classId="computeItem">
  <outDns>
    <dn value="sys/chassis-1/blade-7"/>
    <dn value="sys/chassis-1/blade-5"/>
    <dn value="sys/chassis-1/blade-3"/>
    <dn value="sys/chassis-1/blade-1"/>
  </outDns>
</configFindDnsByClassId>

```

configFindHostPackDependencies

The `configFindHostPackDependencies` method is used to find the policies or profiles referring to the host packs.

Request Syntax

```

<xs:element name="configFindHostPackDependencies"
type="configFindHostPackDependencies" substitutionGroup="externalMethod"/>
  <xs:complexType name="configFindHostPackDependencies" mixed="true">
    <xs:all>
      <xs:element name="inHostPackDns" type="dnSet" minOccurs="0"/>

```

```

</xs:all>
<xs:attribute name="cookie" type="xs:string"/>
<xs:attribute name="response" type="YesOrNo"/>
<xs:attribute name="dn" type="referenceObject"/>
</xs:complexType>

```

Response Syntax

```

<xs:element name="configFindHostPackDependencies"
type="configFindHostPackDependencies" substitutionGroup="externalMethod"/>
  <xs:complexType name="configFindHostPackDependencies" mixed="true">
    <xs:all>
      <xs:element name="outConfigSet" type="configSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Examples

Request

```

<configFindHostPackDependencies
dn="sys/fw-catalogue/distrib-ucs-k9-bundle-b-series.2.0.0.528.gbin"
cookie="<real cookie>">
</configFindHostPackDependencies>

```

Response

```

<configFindHostPackDependencies
dn="sys/fw-catalogue/distrib-ucs-k9-bundle-b-series.2.0.0.528.gbin"
cookie="<real cookie>"
response="yes"> <outConfigSet>
</outConfigSet>
</configFindHostPackDependencies>

```

configFindPermitted

The configFindPermitted method finds the managed objects of a specific org and class ID.

Request Syntax

```

<xs:element name="configFindPermitted" type="configFindPermitted"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configFindPermitted" mixed="true">
    <xs:all>
      <xs:element name="inFilter" type="filterFilter" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inClassId" type="namingClassId"/>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>

```

```

        <xs:enumeration value="yes"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:union>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="cookie" type="xs:string"/>
<xs:attribute name="response" type="YesOrNo"/>
<xs:attribute name="dn" type="referenceObject"/>
</xs:complexType>

```

Response Syntax

```

<xs:element name="configFindPermitted" type="configFindPermitted"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configFindPermitted" mixed="true">
    <xs:all>
      <xs:element name="outConfigSet" type="configSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Examples

Request

```

<configFindPermitted
dn="org-root"
cookie="<real cookie>">
</configFindPermitted>

```

Response

```

<configFindPermitted
dn="org-root"
cookie="real cookie" response="yes">
<outConfigSet>
</outConfigSet>
</configFindPermitted>

```

configGetRemotePolicies

The `configGetRemotePolicies` method finds the list of policies from the policy manager of UCS central.

Request Syntax

```

<xs:element name="configGetRemotePolicies" type="configGetRemotePolicies"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configGetRemotePolicies" mixed="true">
    <xs:all>
      <xs:element name="inPolicyDigests" type="configSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inContext" type="referenceObject"/>
  </xs:complexType>

```

```

    <xs:attribute name="inStimulusId" type="xs:unsignedLong"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="configGetRemotePolicies" type="configGetRemotePolicies"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configGetRemotePolicies" mixed="true">
    <xs:all>
      <xs:element name="outPolicies" type="configSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="outStimulusId" type="xs:unsignedLong"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>

```

Examples

Request

```

<configGetRemotePolicies
cookie="<real cookie>">
</configGetRemotePolicies>

```

Response

```

<configGetRemotePolicies
cookie="<real cookie>"
response="yes"
outStimulusId="0">
<outPolicies> </outPolicies>
</configGetRemotePolicies>

```

configInstallAllImpact

The `configInstallAllImpact` method is used to display a confirmation message about the impacts while applying a policy.

Request Syntax

```

<xs:element name="configInstallAllImpact" type="configInstallAllImpact"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configInstallAllImpact" mixed="true">
    <xs:all>
      <xs:element name="inHostPackDns" type="dnSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inInfraPackVersion">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="0"/>
          <xs:maxLength value="510"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>

```

```

</xs:attribute>
<xs:attribute name="inBladePackVersion">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="0"/>
      <xs:maxLength value="510"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="inRackPackVersion">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="0"/>
      <xs:maxLength value="510"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="inMSeriesPackVersion">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="0"/>
      <xs:maxLength value="510"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="cookie" type="xs:string"/>
<xs:attribute name="response" type="YesOrNo"/>
<xs:attribute name="dn" type="referenceObject"/>
</xs:complexType>

```

Response Syntax

```

<xs:element name="configInstallAllImpact" type="configInstallAllImpact"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configInstallAllImpact" mixed="true">
    <xs:all>
      <xs:element name="outConfigSet" type="configSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Examples

Request

```

<configInstallAllImpact
cookie="<real cookie>">
</configInstallAllImpact>

```

Response

```

<configInstallAllImpact
dn="" cookie="<real cookie>"
response="yes"
errorCode="552"
invocationResult="service-unavailable"
errorDescr="Authorization required">
</configInstallAllImpact>

```

configMoChangeEvent

The `configMoChangeEvent` method provides event details from Cisco UCS as a result of event subscription. The status property indicates the action that caused the event (indicated by `inEid`) to be generated. This is a request sent from Cisco UCS to the subscribers. There is no response.

Request Syntax

```
<xs:element name="configMoChangeEvent" type="configMoChangeEvent"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configMoChangeEvent" mixed="true">
    <xs:all>
      <xs:element name="inConfig" type="configConfig" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inEid" type="xs:unsignedLong"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="configMoChangeEvent" type="configMoChangeEvent"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configMoChangeEvent" mixed="true">
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>
```

Examples

Request

```
<configMoChangeEvent
  cookie="<real_cookie>"
  inEid="174712">
  <inConfig>
    <callhomeEp
      dn="call-home"
      fsmPrev="configCallhomeSetLocal"
      fsmStamp="2008-10-16T17:59:25"
      fsmTry="11"
      status="modified"/>
    </inConfig>
  </configMoChangeEvent>

<configMoChangeEvent
  cookie="<real_cookie>"
  inEid="174713">
  <inConfig>
    <mgmtIf
      dn="sys/switch-A/mgmt/if-1"
```

```

        fsmPrev="SwMgmtOobIfConfigSwitch"
        fsmStamp="2008-10-16T17:59:25"
        fsmTry="9"
        status="modified"/>
    </inConfig>
</configMoChangeEvent>

<configMoChangeEvent
  cookie="<real_cookie>"
  inEid="174714">
  <inConfig>
    <eventRecord
      affected="sys/sysdebug/file-export"
      cause="transition"
      created="2008-10-16T17:59:25"
      descr="[FSM:STAGE:RETRY:8]: configuring automatic core file export service on
        local"
      dn="event-log/54344"
      id="54344"
      ind="state-transition"
      severity="info"
      status="created"
      trig="special"
      txId="24839"
      user="internal"/>
    </inConfig>
  </configMoChangeEvent>

```

Response

There is no response to this method.

configRefreshIdentity

The configRefreshIdentity method

Request Syntax

```

<xs:element name="configRefreshIdentity" type="configRefreshIdentity"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="configRefreshIdentity" mixed="true">
    <xs:attribute name="inIdType">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="mac"/>
          <xs:enumeration value="wwnn"/>
          <xs:enumeration value="wwpn"/>
          <xs:enumeration value="uuid"/>
          <xs:enumeration value="vlan"/>
          <xs:enumeration value="ipV4"/>
          <xs:enumeration value="ipV6"/>
          <xs:enumeration value="iqn"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">

```

```

        <xs:enumeration value="no"/>
        <xs:enumeration value="yes"/>
    </xs:restriction>
</xs:simpleType>
</xs:union>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="inIsDiscardMode">
    <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="no"/>
                    <xs:enumeration value="yes"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
</xs:attribute>
<xs:attribute name="cookie" type="xs:string"/>
<xs:attribute name="response" type="YesOrNo"/>
<xs:attribute name="dn" type="referenceObject"/>
</xs:complexType>

```

Response Syntax

```

<xs:element name="configRefreshIdentity" type="configRefreshIdentity"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configRefreshIdentity" mixed="true">
    <xs:all>
      <xs:element name="outConfig" type="configConfig" minOccurs="0"/>
      <xs:element name="outAckables" type="configMap" minOccurs="0">
        <xs:unique name="unique_map_key_11">
          <xs:selector xpath="pair"/>
          <xs:field xpath="@key"/>
        </xs:unique>
      </xs:element>
      <xs:element name="outOldAckables" type="configMap" minOccurs="0">
        <xs:unique name="unique_map_key_12">
          <xs:selector xpath="pair"/>
          <xs:field xpath="@key"/>
        </xs:unique>
      </xs:element>
      <xs:element name="outAffected" type="configMap" minOccurs="0">
        <xs:unique name="unique_map_key_13">
          <xs:selector xpath="pair"/>
          <xs:field xpath="@key"/>
        </xs:unique>
      </xs:element>
      <xs:element name="outOldAffected" type="configMap" minOccurs="0">
        <xs:unique name="unique_map_key_14">
          <xs:selector xpath="pair"/>
          <xs:field xpath="@key"/>
        </xs:unique>
      </xs:element>
    </xs:all>
    <xs:attribute name="outRetry" type="xs:unsignedShort"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Examples

Request

Response

configReleaseResolveContext

The configReleaseResolveContext method resolves the next results for the current context.

Request Syntax

```
<xs:element name="configReleaseResolveContext" type="configReleaseResolveContext"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configReleaseResolveContext" mixed="true">
    <xs:attribute name="inContext" type="xs:unsignedLong"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="ConfigReleaseResolveContext" type="configReleaseResolveContext"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configReleaseResolveContext" mixed="true">
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>
```

Examples

Request

```
<configReleaseResolveContext
inContext=1
cookie="<real cookie>">
</configReleaseResolveContext>
```

Response

```
<configReleaseResolveContext
cookie="<real cookie>"
response="yes">
</configReleaseResolveContext>
```

configRenewResolveContext

The `configRenewResolveContext` method renews an active resolve context. This method returns a new context

Request Syntax

```
<xs:element name="configRenewResolveContext" type="configRenewResolveContext"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configRenewResolveContext" mixed="true">
    <xs:attribute name="inContext" type="xs:unsignedLong"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="configRenewResolveContext" type="configRenewResolveContext"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configRenewResolveContext" mixed="true">
    <xs:attribute name="outContext" type="xs:unsignedLong"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>
```

Examples

Request

```
<configRenewResolveContext
inContext=1
cookie="<real cookie>">
</configRenewResolveContext>
```

Response

```
<configRenewResolveContext
cookie="<real cookie>"
response="yes" outContext="0">
</configRenewResolveContext>
```

configResolveChildren

The `configResolveChildren` method retrieves children of managed objects under a specific DN in the managed information tree. A filter can be used to reduce the number of children being returned.

Request Syntax

```
<xs:element name="configResolveChildren" type="configResolveChildren"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveChildren" mixed="true">
    <xs:all>
```

```

        <xs:element name="inFilter" type="filterFilter" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inDn" type="referenceObject"/>
    <xs:attribute name="inHierarchical">
        <xs:simpleType>
            <xs:union memberTypes="xs:boolean">
                <xs:simpleType>
                    <xs:restriction base="xs:string">
                        <xs:enumeration value="no"/>
                        <xs:enumeration value="yes"/>
                    </xs:restriction>
                </xs:simpleType>
            </xs:union>
        </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="classId" type="namingClassId"/>
</xs:complexType>

```

Response Syntax

```

<xs:element name="configResolveChildren" type="configResolveChildren"
substitutionGroup="externalMethod"/>
    <xs:complexType name="configResolveChildren" mixed="true">
        <xs:all>
            <xs:element name="outConfigs" type="configSet" minOccurs="0"/>
        </xs:all>
        <xs:attribute name="cookie" type="xs:string"/>
        <xs:attribute name="response" type="YesOrNo"/>
        <xs:attribute name="errorCode" type="xs:unsignedInt"/>
        <xs:attribute name="errorDescr" type="xs:string"/>
        <xs:attribute name="invocationResult" type="xs:string"/>
        <xs:attribute name="classId" type="namingClassId"/>
    </xs:complexType>

```

Examples

Request

```

<configResolveChildren
  cookie="<real_cookie>"
  classId="aaaUser"
  inDn="sys/user-ext"
  inHierarchical="false">
  <inFilter>
  </inFilter>
</configResolveChildren>

```

Response

```

<configResolveChildren
  cookie="<real_cookie>"
  commCookie="11/15/0/2a59"
  srcExtSys="10.193.33.120"
  destExtSys="10.193.33.120"
  srcSvc="sam_extXMLApi"

```

```

destSvc="mgmt-controller_dme"
response="yes"
classId="aaaUser">
<outConfig>
  <aaaUser descr="" dn="sys/user-ext/user-chambers"
    email="" expiration="never" expires="no" firstName="John" intId="12716"
    lastName="Chambers" name="chambers" phone="" priv="admin,read-only"
    pwdSet="yes"/>
  <aaaUser descr="" dn="sys/user-ext/user-jackson" email="" expiration="never"
    expires="no" firstName="Andrew" intId="12734" lastName="Jackson"
    name="jackson" phone=""
    priv="fault,operations,policy,read-only,res-config,tenant" pwdSet="yes"/>
  <aaaUser descr="" dn="sys/user-ext/user-admin" email="" expiration="never"
    expires="no" firstName="" intId="10052" lastName="" name="admin" phone=""
    priv="admin,read-only" pwdSet="yes"/>
  <aaaUser descr="" dn="sys/user-ext/user-bama" email="" expiration="never"
    expires="no" firstName="Rak" intId="12711" lastName="Bama" name="bama"
    phone="" priv="fault,operations,policy,read-only,res-config,tenant"
    pwdSet="yes"/>
  <aaaUser descr="" dn="sys/user-ext/user-fuld" email="" expiration="never"
    expires="no" firstName="Richard" intId="12708" lastName="Fuld" name="fuld"
    phone="" priv="read-only" pwdSet="yes"/>
  <aaaUser descr="testuser" dn="sys/user-ext/user-aaa" email=""
    expiration="never" expires="no" firstName="a" intId="10620" lastName="aa"
    name="aaa" phone="" priv="aaa,read-only" pwdSet="no"/>
</outConfig>
</configResolveChildren>

```

configResolveChildrenSorted

The configResolveChildrenSorted method finds the MO in the sorted order using the specified filter.

Request Syntax

```

<xs:element name="configResolveChildrenSorted" type="configResolveChildrenSorted"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveChildrenSorted" mixed="true">
    <xs:all>
      <xs:element name="inFilter" type="filterFilter" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inDn" type="referenceObject"/>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inSize" type="xs:unsignedShort"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="classId" type="namingClassId"/>
  </xs:complexType>

```

Response Syntax

```
<xs:element name="configResolveChildrenSorted" type="configResolveChildrenSorted"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveChildrenSorted" mixed="true">
    <xs:all/>
    <xs:attribute name="outTotalSize" type="xs:unsignedInt"/>
    <xs:attribute name="outContext" type="xs:unsignedLong"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="classId" type="namingClassId"/>
  </xs:complexType>
```

Examples

Request

```
<configResolveChildrenSorted
cookie="<real cookie>">
</configResolveChildrenSorted>
```

Response

```
<configResolveChildrenSorted
cookie="<real cookie>" response="yes" outTotalSize="32"
outContext="0">
  <outConfigs>
    <syntheticFileSystem dn="FS-"/>
    <aaaLog dn="aaa-log" maxSize="10000" purgeWindow="100" size="6394"/>
    <apeManager dn="ape" statsUpdateId="1"/>
    <callhomeEp adminState="off" alertThrottlingAdminState="on" configState="ok" descr=""
dn="call-home" fsmDescr="" fsmPrev="configCallhomeSuccess" fsmProgr="100"
fsmRmtInvErrCode="none" fsmRmtInvErrDescr="" fsmRmtInvRslt="" fsmStageDescr=""
fsmStamp="2016-08-26T00:03:23.370" fsmStatus="nop" fsmTry="0" intId="10004" name=""
policyLevel="0" policyOwner="local"/>
    <capabilityCatalogue dn="capabilities" fileParseFailures="0" filesParsed="47"
fsmDescr="" fsmPrev="nop" fsmProgr="100" fsmRmtInvErrCode="none" fsmRmtInvErrDescr=""
fsmRmtInvRslt="" fsmStageDescr="" fsmStamp="never" fsmStatus="nop" fsmTry="0"
loadErrors="0" loadWarnings="0" providerLoadFailures="0" providersLoaded="1412"
version="1.0 (0.1)T"/>
    <computeDefaults dn="compute-defaults"/>
    <dhcpInst dn="dhcp"/>
    <eventHolder dn="event" name=""/>
    <eventLog dn="event-log" maxSize="10000" purgeWindow="100" size="9969"/>
    <extpolEp dn="extpol" fsmDescr="" fsmPrev="RegisterFsmSuccess" fsmProgr="100"
fsmRmtInvErrCode="none" fsmRmtInvErrDescr="" fsmRmtInvRslt="" fsmStageDescr=""
fsmStamp="2016-08-03T02:22:43.737" fsmStatus="nop" fsmTry="0"/>
    <fabricEp dn="fabric"/>
    <faultHolder dn="fault" isPinningCleared="yes" lastPinTime="2016-08-25T23:55:23.301"
name="" totalFaults="564169724198922"/>
    <gmetaEp dn="gmeta"/>
    <ippoolUniverse dn="ip"/>
    <iqnpoolUniverse dn="iqn"/>
    <macpoolUniverse dn="mac"/>
    <topMetaInf dn="meta" ecode="" name=""/>
    <identMetaVerse dn="metaverse"/>
    <nfsEp dn="nfs-ep"/>
    <observeObservedCont dn="observe" idCount="0"/>
    <orgOrg descr="" dn="org-root" fltAggr="1185410973700" level="root" name="root"
permAccess="yes"/>
    <policyPolicyEp dn="policy-ep"/>
```

```

<procManager dn="proc-info"/>
<statsHolder dn="stats" name=""/>
<storageDomainEp dn="storage-ep"/>
<topSystem address="10.xx.xxx.xx" currentTime="2016-08-29T19:43:45.181" descr=""
dn="sys" ipv6Addr="::" mode="cluster" name="bg1-col02" owner="" site=""
systemUpTime="03:19:59:58"/>
<topSysDefaults dn="sys-defaults"/>
<clitestTypeTest achar="0" adate="1970-01-01T05:30:00.000"
adatetime="1970-01-01T05:30:00.000" afloat="0.000000" amac="00:00:00:00:00:00"
anenum="up" anipv4="0.0.0.0" anipv6="::" ansbyte="0" ansint16="0" ansint32="0"
ansint64="0" apassword="" arange="0" arcstring="" arxstring="redyellow" astring=""
atime="00:00:00:00.000" aubyte="0" auint16="0" auint32="0" auint64="0"
awwn="00:00:00:00:00:00:00:00" dn="tt-"/>
<clitestTypeTest2 aPartialEnum="untagged" abitmask="up" acharbuf="" dn="tt2-"
fileDir="" fileHost="" fileName="" filePasswd="" filePath="" filePort="0"
fileProto="none" fileUser=""/>
<uuidpoolUniverse dn="uuid"/>
<vmEp dn="vmm"/>
<fcpoolUniverse dn="wwn"/>
</outConfigs>
</configResolveChildrenSorted>

```

configResolveClass

The `configResolveClass` method returns requested managed object in a given class. If `inHierarchical=true`, the results contain children.

Request Syntax

```

<xs:element name="configResolveClass" type="configResolveClass"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveClass" mixed="true">
    <xs:all>
      <xs:element name="inFilter" type="filterFilter" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:attribute>
      <xs:attribute name="cookie" type="xs:string"/>
      <xs:attribute name="response" type="YesOrNo"/>
      <xs:attribute name="classId" type="namingClassId"/>
    </xs:complexType>

```

Response Syntax

```

<xs:element name="configResolveClass" type="configResolveClass"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveClass" mixed="true">

```

```

<xs:all>
  <xs:element name="outConfigs" type="configSet" minOccurs="0"/>
</xs:all>
<xs:attribute name="cookie" type="xs:string"/>
<xs:attribute name="response" type="YesOrNo"/>
<xs:attribute name="errorCode" type="xs:unsignedInt"/>
<xs:attribute name="errorDescr" type="xs:string"/>
<xs:attribute name="invocationResult" type="xs:string"/>
<xs:attribute name="classId" type="namingClassId"/>
</xs:complexType>

```

Examples

Request

```

<configResolveClass
  cookie="<real_cookie>"
  classId="pkiEp"
  inHierarchical="false">
  <inFilter>
  </inFilter>
</configResolveClass>

```

Response

```

<configResolveClass
  cookie="<real_cookie>"
  commCookie="11/15/0/2a5b"
  srcExtSys="10.193.33.120"
  destExtSys="10.193.33.120"
  srcSvc="sam_extXMLApi"
  destSvc="mgmt-controller_dme"
  response="yes"
  classId="pkiEp">
  <outConfig>
    <pkiEp descr=""
      dn="sys/pki-ext"
      intId="10037"
      name=""/>
  </outConfig>
</configResolveClass>

```

configResolveClasses

The configResolveClasses method returns requested managed objects in several classes. If inHierarchical=true, the results contain children.

Request Syntax

```

<xs:element name="configResolveClasses" type="configResolveClasses"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveClasses" mixed="true">
    <xs:all>
      <xs:element name="inIds" type="classIdSet" minOccurs="0"/>
    </xs:all>
  </xs:complexType>

```

```

    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:attribute>
      <xs:attribute name="cookie" type="xs:string"/>
      <xs:attribute name="response" type="YesOrNo"/>
    </xs:complexType>

```

Response Syntax

```

<xs:element name="configResolveClasses" type="configResolveClasses"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveClasses" mixed="true">
    <xs:all>
      <xs:element name="outConfigs" type="configSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>

```

Examples

Request

```

<configResolveClasses
  cookie="<real_cookie>"
  inHierarchical="false">
  <inIds>
    <Id value="computeItem"/>
    <Id value="equipmentChassis"/>
  </inIds>
</configResolveClasses>

```

Response

(This is an abbreviated response.)

```

<configResolveClasses
  cookie="<real_cookie>"
  response="yes">
  <outConfigs>
    <computeItem
      adminPower="policy"
      adminState="in-service"
      dn="sys/chassis-1/blade-1"
    .
  </outConfigs>
</configResolveClasses>

```

```

        ./>
    <computeItem
      adminPower="policy"
      adminState="in-service"
      dn="sys/chassis-1/blade-3"
      .
    ./>
    <computeItem
      adminPower="policy"
      adminState="in-service"
      dn="sys/chassis-1/blade-5"
      .
    ./>
    <computeItem
      adminState="acknowledged"
      configState="ok"
      .
    ./>
  </outConfigs>
</configResolveClasses>

```

configResolveClassesSorted

The `configResolveClassesSorted` method returns MO instances of the specified class IDs in sorted order, satisfying the filter constraints. This method returns MOs of the specified class as well as subclasses. If true, this method returns the requested Managed Object and all of the contained children, recursively. If false, this method returns the requested Managed Object, without any contained children.

Request Syntax

```

<xs:element name="configResolveClassesSorted" type="configResolveClassesSorted"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveClassesSorted" mixed="true">
    <xs:all>
      <xs:element name="inIds" type="classIdSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:attribute>
      <xs:attribute name="inSize" type="xs:unsignedShort"/>
      <xs:attribute name="cookie" type="xs:string"/>
      <xs:attribute name="response" type="YesOrNo"/>
    </xs:complexType>

```

Response Syntax

```

<xs:element name="configResolveClassesSorted" type="configResolveClassesSorted"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveClassesSorted" mixed="true">
    <xs:all/>

```

```

    <xs:attribute name="outTotalSize" type="xs:unsignedInt"/>
    <xs:attribute name="outContext" type="xs:unsignedLong"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>

```

Examples

Request

```

<configResolveClassesSorted
classId="computeItem"
cookie="<real cookie>">
</configResolveClassesSorted>

```

Response

```

<configResolveClassesSorted
cookie="<real cookie>"
response="yes" outTotalSize="0" outContext="0">
<outConfigs>
</outConfigs>
</configResolveClassesSorted>

```

configResolveClassSorted

The `configResolveClassSorted` method returns MO instances of the specified class ID in sorted order, satisfying the filter constraints. This method returns MOs of the specified class and subclasses. If true, this method returns the requested Managed Object and all of contained children, recursively. If false, this method returns the requested Managed Object, without any contained children.

Request Syntax

```

<xs:element name="configResolveClassSorted" type="configResolveClassSorted"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveClassSorted" mixed="true">
    <xs:all>
      <xs:element name="inFilter" type="filterFilter" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inSize" type="xs:unsignedShort"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="classId" type="namingClassId"/>
  </xs:complexType>

```

Response Syntax

```
<xs:element name="configResolveClassSorted" type="configResolveClassSorted"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveClassSorted" mixed="true">
    <xs:all/>
    <xs:attribute name="outTotalSize" type="xs:unsignedInt"/>
    <xs:attribute name="outContext" type="xs:unsignedLong"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="classId" type="namingClassId"/>
  </xs:complexType>
```

Examples

Request

```
<configResolveClassSorted
inSize=1
cookie="<real cookie>">
</configResolveClassSorted>
```

Response

```
<configResolveClassSorted
cookie="<real cookie>"
response="yes" outTotalSize="33" outContext="1472480453517">
<outConfigs>
<syntheticFileSystem dn="FS-"/>
</outConfigs>
</configResolveClassSorted>
```

configResolveContext

The `configResolveContext` method specifies how many objects should be returned. If 0, return all objects

Request Syntax

```
<xs:element name="configResolveContext" type="configResolveContext"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveContext" mixed="true">
    <xs:attribute name="inContext" type="xs:unsignedLong"/>
    <xs:attribute name="inSize" type="xs:unsignedShort"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="configResolveContext" type="configResolveContext"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveContext" mixed="true">
    <xs:all/>
    <xs:attribute name="outContext" type="xs:unsignedLong"/>
    <xs:attribute name="cookie" type="xs:string"/>
```

```

    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>

```

Examples

Request

```

<configResolveContext
  cookie="<real cookie>"
  response="Yes"
  inSize="1">
</configResolveContext>

```

Response

```

<configResolveContext
  cookie="<real cookie>"
  response="yes" errorCode="150" invocationResult="unidentified-fail"
  errorDescr="Invalid context: 0">
</configResolveContext>

```

configResolveDn

The configResolveDn method retrieves a single managed object for a specified DN.

Request Syntax

```

<xs:element name="configResolveDn" type="configResolveDn"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveDn" mixed="true">
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="configResolveDn" type="configResolveDn"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveDn" mixed="true">
    <xs:all>

```

```

        <xs:element name="outConfig" type="configConfig" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
</xs:complexType>

```

Examples

Request

```

<configResolveDn
  cookie="real_cookie"
  dn="vmmEp/vm-mgr-vcenter1" />

```

Response

```

<configResolveDn dn="vmmEp/vm-mgr-vcenter1"
  cookie="real_cookie"
  commCookie="9/15/0/1c0d"
  srcExtSys="10.193.34.70"
  destExtSys="10.193.34.70"
  srcSvc="sam_extXMLApi"
  destSvc="vm-mgr_dme"
  response="yes">
  <outConfig>
    <vmManager
      adminState="enable"
      descr=""
      dn="vmmEp/vm-mgr-vcenter1"
      fltAggr="0"
      fsmDescr="AG registration with
        vCenter (FSM:sam:dme:VmManagerRegisterWithVCenter) "
      fsmPrev="RegisterWithVCenterRegistering"
      fsmProgr="13"
      fsmRmtInvErrCode="none"
      fsmRmtInvErrDescr=""
      fsmRmtInvRslt=""
      fsmStageDescr="AG registration with
        vCenter (FSM-STAGE:sam:dme:VmManagerRegisterWithVCenter:Registering) "
      fsmStamp="2010-11-11T21:37:15.696"
      fsmStatus="RegisterWithVCenterRegistering"
      fsmTry="1"
      hostName="savbu-vpod-dev-31.cisco.com"
      intId="21959"
      name="vcenter1"
      operState="unknown"
      stateQual=""
      type="vmware"
      version="" />
    </outConfig>
  </configResolveDn>

```

configResolveDns

The configResolveDns method retrieves the managed objects for a list of DNSs.

Request Syntax

```
<xs:element name="configResolveDns" type="configResolveDns"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveDns" mixed="true">
    <xs:all>
      <xs:element name="inDns" type="dnSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:attribute>
      <xs:attribute name="cookie" type="xs:string"/>
      <xs:attribute name="response" type="YesOrNo"/>
    </xs:complexType>
```

Response Syntax

```
<xs:element name="configResolveDns" type="configResolveDns"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveDns" mixed="true">
    <xs:all>
      <xs:element name="outConfigs" type="configSet" minOccurs="0"/>
      <xs:element name="outUnresolved" type="dnSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>
```

Examples

Request

```
<configResolveDns
  cookie="<real_cookie>"
  inHierarchical="false">
  <inDns>
    <dn value="sys/chassis-1" />
    <dn value="sys/chassis-1/blade-1/board/cpu-1" />
    <dn value="sys/chassis-1/blade-1/board/t-stats" />
```

```

    </inDns>
  </configResolveDns>

```

Response

```

<configResolveDns
  cookie="<real_cookie>"
  response="yes">
  <outConfigs>
    <processorUnit
      arch="Xeon"
      cores="4"
      dn="sys/chassis-1/blade-1/board/cpu-1"
      id="1"
      model="Intel(R) Xeon(R) CPU E5520 @ 2.27GHz"
      operState="operable"
      operability="operable"
      perf="not-supported"
      power="not-supported"
      presence="equipped"
      revision="0"
      serial=""
      socketDesignation="CPU1"
      speed="2.266000"
      stepping="5"
      thermal="ok"
      threads="8"
      vendor="Intel(R) Corporation"
      voltage="ok"/>
    <equipmentChassis
      .
    .>
  </outConfigs>
  <outUnresolved>
    <dn value="sys/chassis-1/blade-1/board/t-stats"/>
  </outUnresolved>
</configResolveDns>

```

configResolveParent

For a specified DN, the configResolveParent method retrieves the parent of the managed object.

Request Syntax

```

<xs:element name="configResolveParent" type="configResolveParent"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveParent" mixed="true">
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>

```

```

    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="configResolveParent" type="configResolveParent"
substitutionGroup="externalMethod"/>
  <xs:complexType name="configResolveParent" mixed="true">
    <xs:all>
      <xs:element name="outConfig" type="configConfig" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Examples

Request

```

<configResolveParent
  cookie="<real_cookie>"
  inHierarchical="false"
  dn="sys/chassis-1/blade-1/adaptor-1">
</configResolveParent>

```

Response

```

<configResolveParent
  dn="sys/chassis-1/blade-1/adaptor-1"
  cookie="<real_cookie>"
  response="yes">
  <outConfig>
    <computeItem
      adminPower="policy"
      adminState="in-service"
      assignedToDn=""
      association="none"
      availability="available"
      availableMemory="10240"
      chassisId="1"
      checkPoint="discovered"
      connPath="A,B"
      connStatus="A,B"
      descr=""
      diagnostics="complete"
      discovery="complete"
      dn="sys/chassis-1/blade-1"
      fltAggr="0"
      fsmDescr=""
      fsmFlags=""
    >
  </outConfig>
</configResolveParent>

```

```

        fsmPrev="DiscoverSuccess"
        fsmProgr="100"
        fsmRmtInvErrCode="none"
        fsmRmtInvErrDescr=""
        fsmRmtInvRslt=""
        fsmStageDescr=""
        fsmStamp="2009-09-23T23:44:30"
        fsmStatus="nop"
        fsmTry="0"
        intId="768052"
        lc="discovered"
        lcTs="1969-12-31T16:00:00"
        managingInst="B"
        model="N20-B6620-1"
        name=""
        numOfAdaptors="1"
        numOfCores="8"
        numOfCpus="2"
        numOfEthHostIfs="2"
        numOfFcHostIfs="0"
        numOfThreads="16"
        operPower="off"
        operQualifier=""
        operState="unassociated"
        operability="operable"
        originalUuid="e3516842-d0a4-11dd-baad-000bab01bfd6"
        presence="equipped"
        revision="0"
        serial="QCI12520024"
        slotId="1"
        totalMemory="10240"
        uuid="e3516842-d0a4-11dd-baad-000bab01bfd6"
        vendor="Cisco Systems Inc"/>
    </outConfig>
</configResolveParent>

```

configScope

The configScope method returns managed objects and details about their configuration.

Request Syntax

```

<xs:element name="configScope" type="configScope" substitutionGroup="externalMethod"/>
  <xs:complexType name="configScope" mixed="true">
    <xs:all>
      <xs:element name="inFilter" type="filterFilter" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inClass" type="namingClassId"/>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:complexType>
  </xs:complexType>

```

```

</xs:attribute>
<xs:attribute name="inRecursive">
  <xs:simpleType>
    <xs:union memberTypes="xs:boolean">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="no"/>
          <xs:enumeration value="yes"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:union>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="cookie" type="xs:string"/>
<xs:attribute name="response" type="YesOrNo"/>
<xs:attribute name="dn" type="referenceObject"/>
</xs:complexType>

```

Response Syntax

```

<xs:element name="configScope" type="configScope" substitutionGroup="externalMethod"/>
<xs:complexType name="configScope" mixed="true">
  <xs:all>
    <xs:element name="outConfigs" type="configSet" minOccurs="0"/>
  </xs:all>
  <xs:attribute name="cookie" type="xs:string"/>
  <xs:attribute name="response" type="YesOrNo"/>
  <xs:attribute name="errorCode" type="xs:unsignedInt"/>
  <xs:attribute name="errorDescr" type="xs:string"/>
  <xs:attribute name="invocationResult" type="xs:string"/>
  <xs:attribute name="dn" type="referenceObject"/>
</xs:complexType>

```

Examples

Request

```

<configScope
  dn="org-root"
  cookie="<real_cookie>"
  inClass="orgOrgRes"
  inHierarchical="false"
  inRecursive="false">
  <inFilter>
  </inFilter>
</configScope>

```

Response

```

<configScope dn="org-root"
  cookie="<real_cookie>"
  commCookie="2/15/0/2a53"
  srcExtSys="10.193.33.120"
  destExtSys="10.193.33.120"
  srcSvc="sam_extXMLapi"
  destSvc="service-reg_dme"
  response="yes">

```

```

<outConfigs>
  <orgOrgCaps dn="org-root/org-caps" org="512" tenant="64"/>
  <orgOrgCounts dn="org-root/org-counter" org="36" tenant="7"/>
</outConfigs>
</configScope>

```

equipmentClone

The `equipmentClone` method is used to clone a chassis profile template.

Request Syntax

```

<xs:element name="equipmentClone" type="equipmentClone"
substitutionGroup="externalMethod"/>
  <xs:complexType name="equipmentClone" mixed="true">
    <xs:attribute name="inTargetOrg" type="referenceObject"/>
    <xs:attribute name="inChassisProfileName">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="equipmentClone" type="equipmentClone"
substitutionGroup="externalMethod"/>
  <xs:complexType name="equipmentClone" mixed="true">
    <xs:all>
      <xs:element name="outConfig" type="configConfig" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Examples

Request

```
<equipmentClone
dn="org-root/cp-testTemplate"
cookie="<real cookie>"
inTargetOrg="org-root"
inChassisProfileName="TestCP"
inHierarchical="no">
</equipmentClone>
```

Response

```
<equipmentClone dn="org-root/cp-testTemplate"
cookie="<real cookie>" response="yes">
<outConfig>
<equipmentChassisProfile assignState="unassigned" assocState="unassociated"
chassisDn="" chassisFwPolicyName="" configQualifier="" configState="not-applied"
descr="" diskZoningPolicyName="default" dn="org-root/cp-TestCP" fltAggr="0"
fsmDescr="" fsmFlags="" fsmPrev="nop" fsmProgr="100" fsmRmtInvErrCode="none"
fsmRmtInvErrDescr="" fsmRmtInvRslt="" fsmStageDescr="" fsmStamp="never" fsmStatus="nop"
fsmTry="0" intId="6090680" maintPolicyName="" name="TestCP" operChassisFwPolicyName=""
operDiskZoningPolicyName="" operMaintPolicyName="" operSrcTemplName=""
operState="unassociated" owner="management" policyLevel="0" policyOwner="local"
propAcl="0" resolveRemote="yes" srcTemplName="" status="created" type="initial-template"
usrLbl="" uuid="00000000-0000-0000-0000-000000000000"/>
</outConfig>
</equipmentClone>
```

equipmentInstantiateNNamedTemplate

The `equipmentInstantiateNNamedTemplate` method takes the specified service profile template and instantiates the desired number of service profiles.

Request Syntax

```
<xs:element name="equipmentInstantiateNNamedTemplate"
type="equipmentInstantiateNNamedTemplate" substitutionGroup="externalMethod"/>
  <xs:complexType name="equipmentInstantiateNNamedTemplate" mixed="true">
    <xs:all>
      <xs:element name="inNameSet" type="dnSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inTargetOrg" type="referenceObject"/>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inErrorOnExisting">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
```

```

        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="no"/>
            <xs:enumeration value="yes"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:union>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="cookie" type="xs:string"/>
  <xs:attribute name="response" type="YesOrNo"/>
  <xs:attribute name="dn" type="referenceObject"/>
</xs:complexType>

```

Response Syntax

```

<xs:element name="equipmentInstantiateNNamedTemplate"
  type="equipmentInstantiateNNamedTemplate" substitutionGroup="externalMethod"/>
  <xs:complexType name="equipmentInstantiateNNamedTemplate" mixed="true">
    <xs:all>
      <xs:element name="outConfigs" type="configSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Examples

Request

```

<equipmentInstantiateNNamedTemplate
  dn="org-root/cp-testTemplate"
  cookie="<real cookie>"
  inTargetOrg="org-root"
  inHierarchical="no">
  <inNameSet>
    <dn value="mycp"/>
  </inNameSet>
</equipmentInstantiateNNamedTemplate>

```

Response

```

<equipmentInstantiateNNamedTemplate
  dn="org-root/cp-testTemplate"
  cookie="<real cookie>" response="yes">
  <outConfigs>
    <equipmentChassisProfile assignState="assigned" assocState="associated"
      chassisDn="sys/chassis-1" chassisFwPolicyName="" configQualifier=""
      configState="applied" descr="" diskZoningPolicyName="default" dn="org-root/cp-mycp"
      fltAggr="0" fsmDescr="" fsmFlags="" fsmPrev="ConfigureSuccess" fsmProgr="100"
      fsmRmtInvErrCode="none" fsmRmtInvErrDescr="" fsmRmtInvRslt="" fsmStageDescr=""
      fsmStamp="2016-08-25T23:52:22.480" fsmStatus="nop" fsmTry="0" intId="5437252"
      maintPolicyName="" name="mycp" operChassisFwPolicyName="org-root/fw-chassis-pack-default"
      operDiskZoningPolicyName="org-root/disk-zoning-policy-default"
      operMaintPolicyName="org-root/chassis-profile-maint-default" operSrcTemplName=""
      operState="ok" owner="management" policyLevel="0" policyOwner="local" propAcl="0"
      resolveRemote="yes" srcTemplName="testTemplate" status="modified" type="instance"
      usrLbl="" uuid="00000000-0000-0000-0000-000000000000"/>
  </outConfigs>
</equipmentInstantiateNNamedTemplate>

```

```

</outConfigs>
</equipmentInstantiateNNamedTemplate>

```

equipmentInstantiateNTemplate

The `equipmentInstantiateNTemplate` method creates a number (N) of service profiles from a template.

Request Syntax

```

<xs:element name="equipmentInstantiateNTemplate"
type="equipmentInstantiateNTemplate" substitutionGroup="externalMethod"/>
  <xs:complexType name="equipmentInstantiateNTemplate" mixed="true">
    <xs:attribute name="inTargetOrg" type="referenceObject"/>
    <xs:attribute name="inChassisProfileNamePrefixOrEmpty">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\.:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inNumberOf" type="xs:unsignedByte"/>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="equipmentInstantiateNTemplate"
type="equipmentInstantiateNTemplate" substitutionGroup="externalMethod"/>
  <xs:complexType name="equipmentInstantiateNTemplate" mixed="true">
    <xs:all>
      <xs:element name="outConfigs" type="configSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Examples

Request

```
<equipmentInstantiateNTemplate
dn="org-root/cp-testTemplate"
cookie="1472654892/884439e6-4824-4697-9bb5-f00d96bafe9b"
inTargetOrg="org-root"
inChassisProfileNamePrefixOrEmpty="TestCP"
inNumberOf="2"
inHierarchical="no">
</equipmentInstantiateNTemplate>
```

Response

```
<equipmentInstantiateNTemplate
dn="org-root/cp-testTemplate"
cookie="1472654892/884439e6-4824-4697-9bb5-f00d96bafe9b" response="yes">
<outConfigs>
<equipmentChassisProfile assignState="unassigned" assocState="unassociated"
chassisDn="" chassisFwPolicyName="" configQualifier="" configState="not-applied"
descr="" diskZoningPolicyName="default" dn="org-root/cp-TestCP1" fltAggr="0" fsmDescr=""
fsmFlags="" fsmPrev="nop" fsmProgr="100" fsmRmtInvErrCode="none" fsmRmtInvErrDescr=""
fsmRmtInvRslt="" fsmStageDescr="" fsmStamp="never" fsmStatus="nop" fsmTry="0"
intId="6090568" maintPolicyName="" name="TestCP1" operChassisFwPolicyName=""
operDiskZoningPolicyName="" operMaintPolicyName="" operSrcTemplateName=""
operState="unassociated" owner="management" policyLevel="0" policyOwner="local"
propAcl="0" resolveRemote="yes" srcTemplateName="testTemplate" status="created"
type="instance" usrLbl="" uid="00000000-0000-0000-0000-000000000000"/>
<equipmentChassisProfile assignState="unassigned" assocState="unassociated"
chassisDn="" chassisFwPolicyName="" configQualifier="" configState="not-applied"
descr="" diskZoningPolicyName="default" dn="org-root/cp-TestCP2" fltAggr="0"
fsmDescr="" fsmFlags="" fsmPrev="nop" fsmProgr="100" fsmRmtInvErrCode="none"
fsmRmtInvErrDescr="" fsmRmtInvRslt="" fsmStageDescr="" fsmStamp="never" fsmStatus="nop"
fsmTry="0" intId="6090571" maintPolicyName="" name="TestCP2" operChassisFwPolicyName=""
operDiskZoningPolicyName="" operMaintPolicyName="" operSrcTemplateName=""
operState="unassociated" owner="management" policyLevel="0" policyOwner="local"
propAcl="0" resolveRemote="yes" srcTemplateName="testTemplate" status="created"
type="instance" usrLbl="" uid="00000000-0000-0000-0000-000000000000"/>
</outConfigs>
</equipmentInstantiateNTemplate>
```

equipmentInstantiateTemplate

The `equipmentInstantiateTemplate` method creates one chassis profile from a specified template.

Request Syntax

```
<xs:element name="equipmentInstantiateTemplate"
type="equipmentInstantiateTemplate" substitutionGroup="externalMethod"/>
<xs:complexType name="equipmentInstantiateTemplate" mixed="true">
  <xs:attribute name="inTargetOrg" type="referenceObject"/>
  <xs:attribute name="inChassisProfileName">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:pattern value="[\-\.\:_a-zA-Z0-9]{0,16}"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="inHierarchical">
    <xs:simpleType>
      <xs:union memberTypes="xs:boolean">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="no"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:union>
    </xs:simpleType>
  </xs:attribute>
```

```

        <xs:enumeration value="yes"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:union>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="inErrorOnExisting">
  <xs:simpleType>
    <xs:union memberTypes="xs:boolean">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="no"/>
          <xs:enumeration value="yes"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:union>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="cookie" type="xs:string"/>
<xs:attribute name="response" type="YesOrNo"/>
<xs:attribute name="dn" type="referenceObject"/>
</xs:complexType>

```

Response Syntax

```

<xs:element name="equipmentInstantiateTemplate"
type="equipmentInstantiateTemplate" substitutionGroup="externalMethod"/>
  <xs:complexType name="equipmentInstantiateTemplate" mixed="true">
    <xs:all>
      <xs:element name="outConfig" type="configConfig" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Examples

Request

```

<equipmentInstantiateTemplate
dn="org-root/cp-testTemplate"
cookie="<real_cookie>"
inTargetOrg="org-root"
inChassisProfileName="CP1"
inHierarchical="no">
</equipmentInstantiateTemplate>

```

Response

```

<equipmentInstantiateTemplate
dn="org-root/cp-testTemplate"
cookie="<real_cookie>" response="yes">
<outConfig>
<equipmentChassisProfile assignState="unassigned" assocState="unassociated"
chassisDn="" chassisFwPolicyName="" configQualifier="" configState="not-applied"
descr="" diskZoningPolicyName="default" dn="org-root/cp-CP1" fltAggr="0" fsmDescr=""
fsmFlags="" fsmPrev="nop" fsmProgr="100" fsmRmtInvErrCode="none" fsmRmtInvErrDescr=""
fsmRmtInvRslt="" fsmStageDescr="" fsmStamp="never" fsmStatus="nop" fsmTry="0"
intId="6090685" maintPolicyName="" name="CP1" operChassisFwPolicyName=""

```

```

operDiskZoningPolicyName="" operMaintPolicyName="" operSrcTemplName=""
operState="unassociated" owner="management" policyLevel="0" policyOwner="local"
propAcl="0" resolveRemote="yes" srcTemplName="testTemplate" status="created"
type="instance" usrLbl="" uuid="00000000-0000-0000-0000-000000000000"/>
</outConfig>
</equipmentInstantiateTemplate>

```

equipmentResolveTemplates

The `equipmentResolveTemplates` method retrieves the chassis profile templates from the specified organization, which is matched hierarchically.

Request Syntax

```

<xs:element name="equipmentResolveTemplates" type="equipmentResolveTemplates"
substitutionGroup="externalMethod"/>
  <xs:complexType name="equipmentResolveTemplates" mixed="true">
    <xs:all>
      <xs:element name="inFilter" type="filterFilter" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inExcludeIfBound">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:attribute>
    <xs:attribute name="inType">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="initial-template"/>
          <xs:enumeration value="updating-template"/>
          <xs:enumeration value="all"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Response Syntax

```
<xs:element name="equipmentResolveTemplates" type="equipmentResolveTemplates"
substitutionGroup="externalMethod"/>
  <xs:complexType name="equipmentResolveTemplates" mixed="true">
    <xs:all>
      <xs:element name="outConfigs" type="configMap" minOccurs="0">
        <xs:unique name="unique_map_key_15">
          <xs:selector xpath="pair"/>
          <xs:field xpath="@key"/>
        </xs:unique>
      </xs:element>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>
```

Examples

Request

```
<equipmentResolveTemplates
dn="org-root"
cookie="<real_cookie>"
inExcludeIfBound="false"
inType="initial-template"
inHierarchical="no">
</equipmentResolveTemplates>
```

Response

```
<equipmentResolveTemplates dn="org-root"
cookie="<real_cookie>" response="yes">
<outConfigs>
<pair key="cp-testTemplate">
<equipmentChassisProfile assignState="unassigned" assocState="unassociated"
chassisDn="" chassisFwPolicyName="" configQualifier="" configState="not-applied"
descr="" diskZoningPolicyName="default" dn="org-root/cp-testTemplate" fltAggr="0"
fsmDescr="" fsmFlags="" fsmPrev="nop" fsmProgr="100" fsmRmtInvErrCode="none"
fsmRmtInvErrDescr="" fsmRmtInvRslt="" fsmStageDescr="" fsmStamp="never" fsmStatus="nop"
fsmTry="0" intId="6090461" maintPolicyName="" name="testTemplate"
operChassisFwPolicyName="org-root/fw-chassis-pack-default"
operDiskZoningPolicyName="org-root/disk-zoning-policy-default"
operMaintPolicyName="org-root/chassis-profile-maint-default"
operSrcTemplName="" operState="unassociated" owner="management" policyLevel="0"
policyOwner="local" propAcl="0" resolveRemote="yes" srcTemplName=""
type="initial-template" usrLbl="" uuid="00000000-0000-0000-0000-000000000000"/>
</pair>
</outConfigs>
</equipmentResolveTemplates>
```

equipmentTemplatise

The `equipmentTemplatise` method creates a template from a specified chassis profile.

Request Syntax

```

<xs:element name="equipmentTemplatise" type="equipmentTemplatise"
substitutionGroup="externalMethod"/>
  <xs:complexType name="equipmentTemplatise" mixed="true">
    <xs:attribute name="inTargetOrg" type="referenceObject"/>
    <xs:attribute name="inTemplateName">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inTemplateType">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="instance"/>
          <xs:enumeration value="initial-template"/>
          <xs:enumeration value="updating-template"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="equipmentTemplatise" type="equipmentTemplatise"
substitutionGroup="externalMethod"/>
  <xs:complexType name="equipmentTemplatise" mixed="true">
    <xs:all>
      <xs:element name="outConfig" type="configConfig" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Examples

Request

Response

eventSendHeartbeat

The `eventSendHeartbeat` method allows clients to retrieve any missed event. Each event has a unique event ID. These event IDs operate as counters and are included in all method responses.

Each time an event is generated, the event ID counter increases and the new event is assigned a new event ID. This enables the subscriber to track the events. If an event is missed by the client, the client can use the `eventSendEvent` method to retrieve the missed event.

Request Syntax

```
<xs:element name="eventSendHeartbeat" type="eventSendHeartbeat"
substitutionGroup="externalMethod"/>
  <xs:complexType name="eventSendHeartbeat" mixed="true">
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="eventSendHeartbeat" type="eventSendHeartbeat"
substitutionGroup="externalMethod"/>
  <xs:complexType name="eventSendHeartbeat" mixed="true">
    <xs:attribute name="outSystemTime" type="dateTime"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>
```

Examples

Request

When the client application subscribes to an event or events by using `eventSubscribe`, Cisco UCS sends `eventSendHeartbeat` periodically (default 120 seconds).

Response

```
<eventSendHeartbeat
  cookie="<real_cookie>"
  commCookie=""
  srcExtSys="0.0.0.0"
  destExtSys="0.0.0.0"
  srcSvc=""
  destSvc=""
  response="yes"
```

```

    outSystemTime="2010-11-12T20:38:19.630">
  </eventSendHeartbeat>

```

eventSubscribe

The `eventSubscribe` method allows a client to subscribe to asynchronous events generated by Cisco UCS, including all object changes in the system (created, changed, or deleted).

Event subscription allows a client application to register for event notification from Cisco UCS. When an event occurs, Cisco UCS informs the client application of the event and its type. Only the actual change information is sent. The object's unaffected attributes are not included.

Use `eventSubscribe` to register for events as shown in the following example:

```

<eventSubscribe
  cookie="<real_cookie>">
</eventSubscribe>

```

Request Syntax

```

<xs:element name="eventSubscribe" type="eventSubscribe"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="eventSubscribe" mixed="true">
    <xs:all>
      <xs:element name="inFilter" type="filterFilter" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="eventSubscribe" type="eventSubscribe"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="eventSubscribe" mixed="true">
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>

```

Examples

Request

```

<eventSubscribe
  cookie="<real_cookie>">
  <inFilter>
  </inFilter>
</eventSubscribe>

```

Response

NO RESPONSE OR ACKNOWLEDGMENT.

eventUnsubscribe

The `eventUnsubscribe` method allows a client to unsubscribe from asynchronous events generated by Cisco UCS, reversing event subscriptions that resulted from `eventSubscribe`.

Use `eventUnsubscribe` to unsubscribe from events as shown in the following example:

```
<eventUnsubscribe
  cookie="<real_cookie>">
</eventUnsubscribe>
```

Request Syntax

```
<xs:element name="eventUnsubscribe" type="eventUnsubscribe"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="eventUnsubscribe" mixed="true">
    <xs:all>
      <xs:element name="inFilter" type="filterFilter" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="eventUnsubscribe" type="eventUnsubscribe"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="eventUnsubscribe" mixed="true">
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>
```

Examples

Request

```
<eventUnsubscribe
  cookie="<real_cookie>">
  <inFilter>
  </inFilter>
</eventUnsubscribe>
```

Response

NO RESPONSE OR ACKNOWLEDGMENT.

faultAckFault

The `faultAckFault` method acknowledges a fault. The acknowledgment response marks the fault severity as cleared. Faults categorized as auto-cleared do not require acknowledgment.

Request Syntax

```
<xs:element name="faultAckFault" type="faultAckFault" substitutionGroup="externalMethod"/>
  <xs:complexType name="faultAckFault" mixed="true">
    <xs:attribute name="inId" type="xs:unsignedLong"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="faultAckFault" type="faultAckFault" substitutionGroup="externalMethod"/>
  <xs:complexType name="faultAckFault" mixed="true">
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>
```

Examples

Request

```
<faultAckFault
  inHierarchical="false"
  cookie="<real_cookie>"
  inId="10120" />
```

Response

```
<faultAckFault
  cookie="<real_cookie>"
  commCookie="5/15/0/6c"
  srcExtSys="10.193.33.214"
  destExtSys="10.193.33.214"
  srcSvc="sam_extXMLApi"
  destSvc="resource-mgr_dme"
  response="yes">
</faultAckFault>
```

faultAckFaults

The `faultAckFaults` method acknowledges multiple faults. The acknowledgment response marks the fault severity as cleared. Faults categorized as auto-cleared do not require acknowledgment.

Request Syntax

```
<xs:element name="faultAckFaults" type="faultAckFaults"
substitutionGroup="externalMethod"/>
  <xs:complexType name="faultAckFaults" mixed="true">
    <xs:all>
      <xs:element name="inIds" type="idSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="faultAckFaults" type="faultAckFaults"
substitutionGroup="externalMethod"/>
  <xs:complexType name="faultAckFaults" mixed="true">
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>
```

Examples**Request**

```
<faultAckFaults
  cookie="<real_cookie>"
  <inIds>
    <id value="10656"/>
    <id value="10660"/>
  </inIds>
</faultAckFaults>
```

Response

```
<faultAckFaults
  cookie="<real_cookie>"
  commCookie="11/15/0/505"
  srcExtSys="10.193.34.70"
  destExtSys="10.193.34.70"
  srcSvc="sam_extXMLApi"
  destSvc="mgmt-controller_dme"
  response="yes">
</faultAckFaults>
```

faultResolveFault

The faultResolveFault method sends a response when a fault has been resolved.

Request Syntax

```
<xs:element name="faultResolveFault" type="faultResolveFault"
substitutionGroup="externalMethod"/>
  <xs:complexType name="faultResolveFault" mixed="true">
    <xs:attribute name="inId" type="xs:unsignedLong"/>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="faultResolveFault" type="faultResolveFault"
substitutionGroup="externalMethod"/>
  <xs:complexType name="faultResolveFault" mixed="true">
    <xs:all>
      <xs:element name="outFault" type="configConfig" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>
```

Examples

Request

```
<faultResolveFault
  inHierarchical="false"
  cookie="<real_cookie>"
  inId="10120" />
```

Response

```
<faultResolveFault
  cookie="<real_cookie>"
  commCookie="5/15/0/6a"
  srcExtSys="10.193.33.214"
  destExtSys="10.193.33.214"
  srcSvc="sam_extXMLApi"
  destSvc="resource-mgr_dme"
  response="yes">
  <outFault>
    <faultInst
      ack="yes"
      cause="empty-pool"
      changeSet=""
```

```

code="F0135"
created="2010-11-19T11:02:41.568"
descr="Virtual Security Gateway pool default is empty"
dn="org-root/fwpool-default/fault-F0135"
highestSeverity="minor"
id="10120"
lastTransition="2010-11-19T11:02:41.568"
lc=""
occur="1"
origSeverity="minor"
prevSeverity="minor"
rule="fw-pool-empty"
severity="minor"
tags=""
type="equipment"/>
</outFault>
</faultResolveFault>

```

lsClone

The lsClone method clones a service profile or a service profile template.

Request Syntax

```

<xs:element name="lsClone" type="lsClone" substitutionGroup="externalMethod"/>
  <xs:complexType name="lsClone" mixed="true">
    <xs:attribute name="inTargetOrg" type="referenceObject"/>
    <xs:attribute name="inServerName">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\.:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="lsClone" type="lsClone" substitutionGroup="externalMethod"/>
  <xs:complexType name="lsClone" mixed="true">
    <xs:all>
      <xs:element name="outConfig" type="configConfig" minOccurs="0"/>
    </xs:all>
  </xs:complexType>

```

```

</xs:all>
<xs:attribute name="cookie" type="xs:string"/>
<xs:attribute name="response" type="YesOrNo"/>
<xs:attribute name="errorCode" type="xs:unsignedInt"/>
<xs:attribute name="errorDescr" type="xs:string"/>
<xs:attribute name="invocationResult" type="xs:string"/>
<xs:attribute name="dn" type="referenceObject"/>
</xs:complexType>

```

Examples

Two examples are provided: cloning a service profile and closing a service profile template.

Request (service profile)

```

<lsClone
  dn="org-root/ls-SP1"
  cookie="<real_cookie>"
  inTargetOrg="org-root"
  inServerName="CP-1"
  inHierarchical="no">
</lsClone>

```

Response (service profile)

```

<lsClone
  dn="org-root/ls-SP1"
  cookie="<real_cookie>"
  response="yes"
  errorCode="0"
  errorDescr="">
<outConfig>
  <lsServer
    agentPolicyName=""
    assignState="unassigned"
    assocState="unassociated"
    biosProfileName=""
    bootPolicyName=""
    configQualifier=""
    configState="not-applied"
    descr=""
    dn="org-root/ls-CP-1"
    dynamicConPolicyName=""
    extIPState="none"
    fltAggr="0"
    hostFwPolicyName=""
    identPoolName="default"
    intId="52365"
    localDiskPolicyName="default"
    maintPolicyName=""
    mgmtAccessPolicyName=""
    mgmtFwPolicyName=""
    name="CP-1"
    operBiosProfileName=""
    operBootPolicyName=""
    operDynamicConPolicyName=""
    operHostFwPolicyName=""
    operIdentPoolName=""
    operLocalDiskPolicyName=""
    operMaintPolicyName=""

```

```

operMgmtAccessPolicyName=""
operMgmtFwPolicyName=""
operPowerPolicyName=""
operScrubPolicyName=""
operSolPolicyName=""
operSrcTemplName=""
operState="unassociated"
operStatsPolicyName=""
operVconProfileName=""
owner="management"
pnDn=""
powerPolicyName="default"
scrubPolicyName=""
solPolicyName=""
srcTemplName="service-templ-001"
statsPolicyName="default"
status="created"
type="instance"
usrLbl=""
uuid="derived"
uuidSuffix="0000-000000000000"
vconProfileName=""/>
</outConfig>
</lsClone>

```

Request (service profile template)

```

<lsClone
  dn="org-root/ls-template-3"
  cookie="<real_cookie>"
  inTargetOrg="org-root"
  inServerName="CT-1"
  inHierarchical="no">
</lsClone>

```

Response (service profile template)

```

<lsClone
  dn="org-root/ls-template-3"
  cookie="<real_cookie>"
  response="yes"
  errorCode="0"
  errorDescr="">
<outConfig>
  <lsServer
    agentPolicyName=""
    assignState="unassigned"
    assocState="unassociated"
    biosProfileName=""
    bootPolicyName=""
    configQualifier=""
    configState="not-applied"
    descr=""
    dn="org-root/ls-CT-1"
    dynamicConPolicyName=""
    extIPState="none"
    fltAggr="0"
    hostFwPolicyName=""
    identPoolName="default"
    intId="52389"
    localDiskPolicyName=""

```

```

    maintPolicyName=""
    mgmtAccessPolicyName=""
    mgmtFwPolicyName=""
    name="CT-1"
    operBiosProfileName=""
    operBootPolicyName=""
    operDynamicConPolicyName=""
    operHostFwPolicyName=""
    operIdentPoolName=""
    operLocalDiskPolicyName=""
    operMaintPolicyName=""
    operMgmtAccessPolicyName=""
    operMgmtFwPolicyName=""
    operPowerPolicyName=""
    operScrubPolicyName=""
    operSolPolicyName=""
    operSrcTemplName=""
    operState="unassociated"
    operStatsPolicyName=""
    operVconProfileName=""
    owner="management"
    pnDn=""
    powerPolicyName="default"
    scrubPolicyName=""
    solPolicyName=""
    srcTemplName=""
    statsPolicyName="default"
    status="created"
    type="updating-template"
    usrLbl=""
    uuid="derived"
    uuidSuffix="0000-000000000000"
    vconProfileName=""/>
</outConfig>
</lsClone>

```

lsInstantiateNNamedTemplate

The `lsInstantiateNNamedTemplate` method takes the specified service profile template and instantiates the desired number of service profiles. This method uses the following parameters:

- `dn`—Specifies the service template used to instantiate the new service profiles.
- `nameSet`—Contains the names of the service profiles to be instantiated.
- `targetOrg`—Specifies the organization under which these service profiles are instantiated.

Request Syntax

```

<xs:element name="lsInstantiateNNamedTemplate" type="lsInstantiateNNamedTemplate"
substitutionGroup="externalMethod"/>
  <xs:complexType name="lsInstantiateNNamedTemplate" mixed="true">
    <xs:all>
      <xs:element name="inNameSet" type="dnSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inTargetOrg" type="referenceObject"/>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>

```

```

        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="lsInstantiateNNamedTemplate" type="lsInstantiateNNamedTemplate"
substitutionGroup="externalMethod"/>
  <xs:complexType name="lsInstantiateNNamedTemplate" mixed="true">
    <xs:all>
      <xs:element name="outConfigs" type="configSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Examples

Request

```

<lsInstantiateNNamedTemplate
  dn="org-root/ls-service-template-001"
  cookie="<real_cookie>"
  inTargetOrg="org-root"
  inHierarchical="no">
  <inNameSet>
    <dn value="service-profile-A"/>
    <dn value="service-profile-B"/>
    <dn value="service-profile-C"/>
  </inNameSet>
</lsInstantiateNNamedTemplate>

```

Response

```

<lsInstantiateNNamedTemplate
  dn="org-root/ls-service-template-001"
  cookie="<real_cookie>"
  response="yes"
  errorCode="0"
  errorDescr="">
  <outConfigs>
    <lsServer

```

```

agentPolicyName=""
assignState="unassigned"
assocState="unassociated"
biosProfileName=""
bootPolicyName=""
configQualifier=""
configState="not-applied"
descr=""
dn="org-root/ls-service-profile-A "
dynamicConPolicyName=""
.
.
status="created"
type="instance"
usrLbl=""
uuid="derived"
uuidSuffix="0000-000000000000"
vconProfileName=""/>
<lsServer
.
./>
<lsServer
.
./>
</outConfigs>
</lsInstantiateNNamedTemplate>

```

lsInstantiateNTemplate

The lsInstantiateNTemplate method creates a number (N) of service profiles from a template.

Request Syntax

```

<xs:element name="lsInstantiateNTemplate" type="lsInstantiateNTemplate"
substitutionGroup="externalMethod"/>
  <xs:complexType name="lsInstantiateNTemplate" mixed="true">
    <xs:attribute name="inTargetOrg" type="referenceObject"/>
    <xs:attribute name="inServerNamePrefixOrEmpty">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inNumberOf" type="xs:unsignedByte"/>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>

```

```

    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="lsInstantiateTemplate" type="lsInstantiateTemplate"
substitutionGroup="externalMethod"/>
  <xs:complexType name="lsInstantiateTemplate" mixed="true">
    <xs:all>
      <xs:element name="outConfigs" type="configSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Examples

Request

```

<lsInstantiateTemplate
  dn="org-root/ls-service-templ-001"
  cookie="<real_cookie>"
  inTargetOrg="org-root"
  inServerNamePrefixOrEmpty="SP"
  inNumberOf="2"
  inHierarchical="no">
</lsInstantiateTemplate>

```

Response

```

<lsInstantiateTemplate
  dn="org-root/ls-service-templ-001"
  cookie="<real_cookie>"
  response="yes"
  errorCode="0"
  errorDescr="">
  <outConfigs>
    <lsServer
      agentPolicyName=""
      assignState="unassigned"
      assocState="unassociated"
      biosProfileName=""
      bootPolicyName=""
      configQualifier=""
      configState="not-applied"
      descr=""
      dn="org-root/ls-SP1"
      dynamicConPolicyName=""
      extIPState="none"
      fltAggr="0"
      hostFwPolicyName=""
      identPoolName="default"
      intId="52227"
    </lsServer>
  </outConfigs>

```

```

        localDiskPolicyName="default"
        maintPolicyName=""
        mgmtAccessPolicyName=""
        mgmtFwPolicyName=""
        name="SP1"
        operBiosProfileName=""
        operBootPolicyName=""
        operDynamicConPolicyName=""
        operHostFwPolicyName=""
        operIdentPoolName=""
        operLocalDiskPolicyName=""
        operMaintPolicyName=""
        operMgmtAccessPolicyName=""
        operMgmtFwPolicyName=""
        operPowerPolicyName=""
        operScrubPolicyName=""
        operSolPolicyName=""
        operSrcTemplName=""
        operState="unassociated"
        operStatsPolicyName=""
        operVconProfileName=""
        owner="management"
        pnDn=""
        powerPolicyName="default"
        scrubPolicyName=""
        solPolicyName=""
        srcTemplName="service-templ-001"
        statsPolicyName="default"
        status="created"
        type="instance"
        usrLbl=""
        uuid="derived"
        uuidSuffix="0000-00000000000000"
        vconProfileName=""/>
    </lsServer
    .
./>
</outConfigs>
</lsInstantiateTemplate>

```

lsInstantiateTemplate

The `lsInstantiateTemplate` method creates one service profile from a specified template.

Request Syntax

```

<xs:element name="lsInstantiateTemplate" type="lsInstantiateTemplate"
substitutionGroup="externalMethod"/>
  <xs:complexType name="lsInstantiateTemplate" mixed="true">
    <xs:attribute name="inTargetOrg" type="referenceObject"/>

    <xs:attribute name="inServerName">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\.:_a-zA-Z0-9]{0,16}" />
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inHierarchical">

```

```

    <xs:simpleType>
      <xs:union memberTypes="xs:boolean">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="no"/>
            <xs:enumeration value="yes"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:union>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="cookie" type="xs:string"/>
  <xs:attribute name="response" type="YesOrNo"/>
  <xs:attribute name="dn" type="referenceObject"/>
</xs:complexType>

```

Response Syntax

```

<xs:element name="lsInstantiateTemplate" type="lsInstantiateTemplate"
substitutionGroup="externalMethod"/>
  <xs:complexType name="lsInstantiateTemplate" mixed="true">
    <xs:all>
      <xs:element name="outConfig" type="configConfig" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Examples

Request

```

<lsInstantiateTemplate
  dn="org-root/ls-service-templ-001"
  cookie="<real_cookie>"
  inTargetOrg="org-root"
  inServerName="SP1"
  inHierarchical="no">
</lsInstantiateTemplate>

```

Response

```

<lsInstantiateTemplate
  dn="org-root/ls-service-templ-001"
  cookie="<real_cookie>"
  response="yes"
  errorCode="0"
  errorDescr="">
  <outConfigs>
    <lsServer
      agentPolicyName=""
      assignState="unassigned"
      assocState="unassociated"

```

```

    biosProfileName=""
    bootPolicyName=""
    configQualifier=""
    configState="not-applied"
    descr=""
    dn="org-root/ls-SP1"
    dynamicConPolicyName=""
    extIPState="none"
    fltAggr="0"
    fsmDescr=""
    fsmFlags=""
    fsmPrev="nop"
    fsmProgr="100"
    fsmRmtInvErrCode="none"
    fsmRmtInvErrDescr=""
    fsmRmtInvRslt=""
    fsmStageDescr=""
    fsmStamp="never"
    fsmStatus="nop"
    fsmTry="0"
    hostFwPolicyName=""
    identPoolName="default"
    intId="52227"
    localDiskPolicyName="default"
    maintPolicyName=""
    mgmtAccessPolicyName=""
    mgmtFwPolicyName=""
    name="SP1"
    operBiosProfileName=""
    operBootPolicyName=""
    operDynamicConPolicyName=""
    operHostFwPolicyName=""
    operIdentPoolName=""
    operLocalDiskPolicyName=""
    operMaintPolicyName=""
    operMgmtAccessPolicyName=""
    operMgmtFwPolicyName=""
    operPowerPolicyName=""
    operScrubPolicyName=""
    operSolPolicyName=""
    operSrcTemplName=""
    operState="unassociated"
    operStatsPolicyName=""
    operVconProfileName=""
    owner="management"
    pnDn=""
    powerPolicyName="default"
    scrubPolicyName=""
    solPolicyName=""
    srcTemplName="service-templ-001"
    statsPolicyName="default"
    status="created"
    type="instance"
    usrLbl=""
    uuid="derived"
    uuidSuffix="0000-000000000000"
    vconProfileName=""/>
  </outConfigs>
</lsInstantiateTemplate>

```

IsResolveTemplates

The `IsResolveTemplates` method retrieves the service profile templates from the specified organization, which is matched hierarchically. The search can be further refined by providing standard querying filters in addition to querying by template type (`initial-template` or `updating-template`) and the `exclude-if-bounded` flag.

Request Syntax

```
<xs:element name="IsResolveTemplates" type="IsResolveTemplates"
substitutionGroup="externalMethod"/>
  <xs:complexType name="IsResolveTemplates" mixed="true">
    <xs:all>
      <xs:element name="inFilter" type="filterFilter" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inExcludeIfBound">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:attribute>
    <xs:attribute name="inType">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="initial-template"/>
          <xs:enumeration value="updating-template"/>
          <xs:enumeration value="all"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="IsResolveTemplates" type="IsResolveTemplates"
substitutionGroup="externalMethod"/>
```

```

<xs:complexType name="lsResolveTemplates" mixed="true">
  <xs:all>
    <xs:element name="outConfigs" type="configMap" minOccurs="0">
      <xs:unique name="unique_map_key_10">
        <xs:selector xpath="pair"/>
        <xs:field xpath="@key"/>
      </xs:unique>
    </xs:element>
  </xs:all>
  <xs:attribute name="cookie" type="xs:string"/>
  <xs:attribute name="response" type="YesOrNo"/>
  <xs:attribute name="errorCode" type="xs:unsignedInt"/>
  <xs:attribute name="errorDescr" type="xs:string"/>
  <xs:attribute name="invocationResult" type="xs:string"/>
  <xs:attribute name="dn" type="referenceObject"/>
</xs:complexType>

```

Examples

Request

```

<lsResolveTemplates
  dn="org-root/org-level1"
  cookie="real_cookie"
  inExcludeIfBound="false"
  inType="initial-template"
  inHierarchical="no">
</lsResolveTemplates>

```

Response

```

<lsResolveTemplates
  dn="org-root/org-level1"
  cookie="real_cookie"
  response="yes">
  <outConfigs>
    <pair key="ls-service-template-001">
      <lsServer agentPolicyName=""
        assignState="unassigned"
        assocState="unassociated"
        biosProfileName=""
        bootPolicyName=""
        configQualifier=""
        configState="not-applied"
        descr=""
        dn="org-root/ls-service-template-001"
        type="initial-template"
        usrLbl=""
        uuid="derived"
        uuidSuffix="0000-00000000000000"
        vconProfileName=""/>
    </pair>
  </outConfigs>
</lsResolveTemplates>

```

lsTemplatise

The lsTemplatise method creates a template from a specified service profile.

Request Syntax

```
<xs:element name="lsTemplatise" type="lsTemplatise" substitutionGroup="externalMethod"/>
  <xs:complexType name="lsTemplatise" mixed="true">
    <xs:attribute name="inTargetOrg" type="referenceObject"/>

    <xs:attribute name="inTemplateName">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\.:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inTemplateType">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="instance"/>
          <xs:enumeration value="initial-template"/>
          <xs:enumeration value="updating-template"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="lsTemplatise" type="lsTemplatise" substitutionGroup="externalMethod"/>
  <xs:complexType name="lsTemplatise" mixed="true">
    <xs:all>
      <xs:element name="outConfig" type="configConfig" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>
```

Examples

Request

```
<lsTemplatise
  dn="org-root/ls-SP1"
  cookie="<real_cookie>"
  inTargetOrg="org-root"
  inTemplateName="tempate-2"
  inTemplateType="initial-template"
  inHierarchical="no">
</lsTemplatise>
```

Response

```
<lsTemplatise
  dn="org-root/ls-SP1"
  cookie="<real_cookie>"
  response="yes"
  errorCode="0"
  errorDescr="">
<outConfig>
  <lsServer
    agentPolicyName=""
    assignState="unassigned"
    assocState="unassociated"
    biosProfileName=""
    bootPolicyName=""
    configQualifier=""
    configState="not-applied"
    descr=""
    dn="org-root/ls-tempate-2"
    dynamicConPolicyName=""
    extIPState="none"
    fltAggr="0"
    hostFwPolicyName=""
    identPoolName="default"
    intId="52339"
    localDiskPolicyName="default"
    maintPolicyName=""
    mgmtAccessPolicyName=""
    mgmtFwPolicyName=""
    name="tempate-2"
    operBiosProfileName=""
    operBootPolicyName=""
    operDynamicConPolicyName=""
    operHostFwPolicyName=""
    operIdentPoolName=""
    operLocalDiskPolicyName=""
    operMaintPolicyName=""
    operMgmtAccessPolicyName=""
    operMgmtFwPolicyName=""
    operPowerPolicyName=""
    operScrubPolicyName=""
    operSolPolicyName=""
    operSrcTemplName=""
    operState="unassociated"
    operStatsPolicyName=""
    operVconProfileName=""
    owner="management"
```

```

        pnDn=""
        powerPolicyName="default"
        scrubPolicyName=""
        solPolicyName=""
        srcTemplName="service-templ-001"
        statsPolicyName="default"
        status="created"
        type="initial-template"
        usrLbl=""
        uuid="derived"
        uuidSuffix="0000-000000000000"
        vconProfileName=""/>
    </outConfig>
</lsTemplatise>

```

lstorageCreateZoningFromInv

The `lstorageCreateZoningFromInv` method is used to create zoning policy from inventory chassis.

Request Syntax

```

<xs:element name="lstorageCreateZoningFromInv" type="lstorageCreateZoningFromInv"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="lstorageCreateZoningFromInv" mixed="true">
    <xs:attribute name="inChassisDn" type="referenceObject"/>
    <xs:attribute name="inTargetOrg" type="referenceObject"/>
    <xs:attribute name="inDiskZoningPolicyName">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\.:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="lstorageCreateZoningFromInv" type="lstorageCreateZoningFromInv"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="lstorageCreateZoningFromInv" mixed="true">
    <xs:all>
      <xs:element name="outConfig" type="configConfig" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>

```

Examples

Request

```

<lstorageCreateZoningFromInv
  cookie="<real cookie>">
</lstorageCreateZoningFromInv>

```

Response

```
<lstorageCreateZoningFromInv
cookie="<real cookie>"
response="yes" errorCode="102" invocationResult="unidentified-fail"
errorDescr="chassis profile is unresolvable">
</lstorageCreateZoningFromInv>
```

methodResolveVessel

The methodResolveVessel method is used to send single request for multiple retrieval methods.

Request Syntax

```
<xs:element name="methodResolveVessel" type="methodResolveVessel"
substitutionGroup="externalMethod"/>
  <xs:complexType name="methodResolveVessel" mixed="true">
    <xs:all>
      <xs:element name="inStimuli" type="MethodSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="methodResolveVessel" type="methodResolveVessel"
substitutionGroup="externalMethod"/>
  <xs:complexType name="methodResolveVessel" mixed="true">
    <xs:all>
      <xs:element name="outStimuli" type="MethodSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>
```

Examples

Request

Response

methodVessel

The methodVessel method is used to send single request for multiple retrievals and update methods.

Request Syntax

```
<xs:element name="methodVessel" type="methodVessel"
substitutionGroup="externalMethod"/>
  <xs:complexType name="methodVessel" mixed="true">
    <xs:all>
      <xs:element name="inStimuli" type="MethodSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="methodVessel" type="methodVessel"
substitutionGroup="externalMethod"/>
  <xs:complexType name="methodVessel" mixed="true">
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>
```

Examples

Request

Response

orgResolveElements

The `orgResolveElements` method resolves the instance of the policy class using a specified organization, policy class ID, and name.

Request Syntax

```
<xs:element name="orgResolveElements" type="orgResolveElements"
substitutionGroup="externalMethod"/>
  <xs:complexType name="orgResolveElements" mixed="true">
    <xs:all>
      <xs:element name="inFilter" type="filterFilter" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inClass" type="namingClassId"/>
    <xs:attribute name="inSingleLevel">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>
```

```

        </xs:restriction>
      </xs:simpleType>
    </xs:union>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="inHierarchical">
  <xs:simpleType>
    <xs:union memberTypes="xs:boolean">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="no"/>
          <xs:enumeration value="yes"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:union>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="cookie" type="xs:string"/>
<xs:attribute name="response" type="YesOrNo"/>
<xs:attribute name="dn" type="referenceObject"/>
</xs:complexType>

```

Response Syntax

```

<xs:element name="orgResolveElements" type="orgResolveElements"
substitutionGroup="externalMethod"/>
  <xs:complexType name="orgResolveElements" mixed="true">
    <xs:all>
      <xs:element name="outConfigs" type="configMap" minOccurs="0">
        <xs:unique name="unique_map_key_11">
          <xs:selector xpath="pair"/>
          <xs:field xpath="@key"/>
        </xs:unique>
      </xs:element>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>

```

Examples

Request

```

<orgResolveElements
  dn="org-root/org-Soda"
  cookie="<real_cookie>"
  commCookie="7/15/0/19"
  srcExtSys="10.193.33.221"
  destExtSys="10.193.33.221"
  srcSvc="sam_extXMLApi"
  destSvc="policy_mgr_dme"
  inClass="policyPolicySet"
  inSingleLevel="no"
  inHierarchical="no">
  <inFilter>

```

```

    </inFilter>
</orgResolveElements>

```

Response

```

<orgResolveElements
  dn="org-root/org-Soda"
  cookie="<real_cookie>"
  commCookie="7/15/0/19"
  srcExtSys="10.193.33.221"
  destExtSys="10.193.33.221"
  srcSvc="sam_extXMLApi"
  destSvc="policy-mgr_dme"
  response="yes"
  errorCode="0"
  errorDescr="">
<outConfigs>
  <pair key="pset-default">
    <policyPolicySet
      adminState="enabled"
      descr="The default Policy Set"
      dn="org-root/pset-default"
      intId="10082"
      name="default"/>
  </pair>
  <pair key="pset-myPolicySet3">
    .
  </pair>
  <pair key="pset-policySetSanity">
    <policyPolicySet
      adminState="enabled"
      descr=""
      dn="org-root/org-Soda/pset-policySetSanity"
      intId="24627"
      name="policySetSanity"/>
  </pair>
  <pair key="pset-pci_compliance_f">
    <policyPolicySet
      adminState="enabled"
      descr=""
      dn="org-root/pset-pci_compliance_f"
      intId="24539"
      name="pci_compliance_f"/>
  </pair>
  <pair key="pset-pci_compliance_h">
    <policyPolicySet
      adminState="enabled"
      descr=""
      dn="org-root/pset-pci_compliance_h"
      intId="24541"
      name="pci_compliance_h"/>
  </pair>
</outConfigs>
</orgResolveElements>

```

poolResolveInScope

The `poolResolveInScope` method, using the specified DN, looks up the pool and parent pools (optional) recursively to the root. If no pool exists, an empty map is returned. If any pool is found, this method searches all pools with the specified class and filters.



Note If `inSingleLevel = false`, this method searches parent pools up to the root directory.

Request Syntax

```
<xs:element name="poolResolveInScope" type="poolResolveInScope"
substitutionGroup="externalMethod"/>
  <xs:complexType name="poolResolveInScope" mixed="true">
    <xs:all>
      <xs:element name="inFilter" type="filterFilter" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="inClass" type="namingClassId"/>
    <xs:attribute name="inSingleLevel">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inHierarchical">
      <xs:simpleType>
        <xs:union memberTypes="xs:boolean">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="no"/>
              <xs:enumeration value="yes"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:union>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="poolResolveInScope" type="poolResolveInScope"
substitutionGroup="externalMethod"/>
  <xs:complexType name="poolResolveInScope" mixed="true">
    <xs:all>
      <xs:element name="outConfigs" type="configMap" minOccurs="0">
        <xs:unique name="unique_map_key_13">
```

```

        <xs:selector xpath="pair"/>
        <xs:field xpath="@key"/>
    </xs:unique>
</xs:element>
</xs:all>
<xs:attribute name="cookie" type="xs:string"/>
<xs:attribute name="response" type="YesOrNo"/>
<xs:attribute name="errorCode" type="xs:unsignedInt"/>
<xs:attribute name="errorDescr" type="xs:string"/>
<xs:attribute name="invocationResult" type="xs:string"/>
<xs:attribute name="dn" type="referenceObject"/>
</xs:complexType>

```

Examples

Request

```

<poolResolveInScope
  dn="org-root/org-Cisco"
  cookie="<real_cookie>"
  class=fwPool />

```

Response

```

<poolResolveInScope
  dn="org-root/org-Cisco"
  cookie="<real_cookie>"
  commCookie="5/15/0/5bf"
  srcExtSys="10.193.33.221"
  destExtSys="10.193.33.221"
  srcSvc="sam_extXMLApi"
  destSvc="resource-mgr_dme"
  response="yes">
  <outConfigs>
    <pair key="fwpool-default">
      <fwPool
        assigned="0"
        descr="Default Pool of Virtual Security Gateway resources"
        dn="org-root/fwpool-default"
        fltAggr="65536"
        id="1"
        intId="10065"
        name="default"
        size="0"/>
    </pair>
    <pair key="fwpool-ciscoCfwPool">
      .
    </pair>
  </outConfigs>
</poolResolveInScope>

```

statsClearInterval

The `statsClearInterval` method resets the collection interval timer for the `statsClass`. All of the statistics' implicit properties (for example, min, max, and avg calculations) are reset, and the corresponding history properties are updated. The interval updates restart from 1, and the stats collection is reset.

Request Syntax

```
<xs:element name="statsClearInterval" type="statsClearInterval"
substitutionGroup="externalMethod"/>
  <xs:complexType name="statsClearInterval" mixed="true">
    <xs:all>
      <xs:element name="inDns" type="dnSet" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="statsClearInterval" type="statsClearInterval"
substitutionGroup="externalMethod"/>
  <xs:complexType name="statsClearInterval" mixed="true">
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>
```

Examples

Request

```
<statsClearInterval
  cookie="<real_cookie>"
  <inDns>
    <dn value="sys/chassis-1/blade-1/board/temp-stats"/>
  </inDns>
</statsClearInterval>
```

Response

```
<statsClearInterval
  cookie="<real_cookie>"
  response="yes"
  errorCode="0"
  errorDescr="">
</statsClearInterval>
```

statsResolveThresholdPolicy

The `statsResolveThresholdPolicy` method resolves threshold policy based on the container class ID. The container class is objects with policies (for example, server domain, LAN cloud, and SAN cloud). Cisco UCS uses the hierarchy of an organization to resolve the names of policies.

Request Syntax

```
<xs:element name="statsResolveThresholdPolicy" type="statsResolveThresholdPolicy"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="statsResolveThresholdPolicy" mixed="true">
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>
```

Response Syntax

```
<xs:element name="statsResolveThresholdPolicy" type="statsResolveThresholdPolicy"
  substitutionGroup="externalMethod"/>
  <xs:complexType name="statsResolveThresholdPolicy" mixed="true">
    <xs:all>
      <xs:element name="outConfig" type="configConfig" minOccurs="0"/>
    </xs:all>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
    <xs:attribute name="dn" type="referenceObject"/>
  </xs:complexType>
```

Examples

Request

```
<statsResolveThresholdPolicy
  dn="sys/chassis-1/blade-5/adaptor-1/ext-eth-1/eth-port-stats-rx"
  cookie="<real_cookie>"
/>
```

Response

```
<statsResolveThresholdPolicy
  dn="sys/chassis-1/blade-3/adaptor-1/ext-eth-1/eth-port-stats-rx"
  cookie="<real_cookie>"
  response="yes">
  <outConfig>
    <statsThresholdPolicy
      childAction="deleteNonPresent"
      descr="" dn="fabric/lan/thr-policy-default"
      intId="20243"
      name="default" >
    <statsThresholdClass
      childAction="deleteNonPresent"
      descr=""
      intId="32274"
      name="" rn="adaptorEthPortStats"
      statsClassId="adaptorEthPortStats" >
    <statsThr64Definition
      childAction="deleteNonPresent"
      descr=""
```

```

        intId="32275"
        name=""
        normalValue="1"
        propId="adaptorEthPortStatstotalPacketsDelta"
        propType="uint64"
        rn="adaptorEthPortStatstotalPacketsDelta" />
    </statsThresholdClass>
</statsThresholdPolicy>
</outConfig>
</statsResolveThresholdPolicy>

```

trigPerformTokenAction

The trigPerformTokenAction method

Request Syntax

```

<xs:element name="trigPerformTokenAction" type="trigPerformTokenAction"
substitutionGroup="externalMethod"/>
  <xs:complexType name="trigPerformTokenAction" mixed="true">
    <xs:attribute name="inTokenAction">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="request"/>
          <xs:enumeration value="refresh"/>
          <xs:enumeration value="release"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inContext" type="referenceObject"/>
    <xs:attribute name="inTokenId" type="xs:unsignedLong"/>
    <xs:attribute name="inSchedName">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\.:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inWindowName">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\.:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inWindowType">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="absolute"/>
          <xs:enumeration value="recurring"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="inTriggerableDn" type="referenceObject"/>
    <xs:attribute name="inOwnership">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="local"/>
          <xs:enumeration value="pending-policy"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>

```

```

        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
  </xs:complexType>

```

Response Syntax

```

<xs:element name="trigPerformTokenAction" type="trigPerformTokenAction"
substitutionGroup="externalMethod"/>
  <xs:complexType name="trigPerformTokenAction" mixed="true">
    <xs:attribute name="outWindowName">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[\-\.\:_a-zA-Z0-9]{0,16}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="outWindowType">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="absolute"/>
          <xs:enumeration value="recurring"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="outOldTokenId" type="xs:unsignedLong"/>
    <xs:attribute name="outNewTokenId" type="xs:unsignedLong"/>
    <xs:attribute name="outOldTriggerableDn" type="referenceObject"/>
    <xs:attribute name="outLastTokenOperation">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="request"/>
          <xs:enumeration value="refresh"/>
          <xs:enumeration value="release"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="outOwnership">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="local"/>
          <xs:enumeration value="policy"/>
          <xs:enumeration value="pending-policy"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="cookie" type="xs:string"/>
    <xs:attribute name="response" type="YesOrNo"/>
    <xs:attribute name="errorCode" type="xs:unsignedInt"/>
    <xs:attribute name="errorDescr" type="xs:string"/>
    <xs:attribute name="invocationResult" type="xs:string"/>
  </xs:complexType>

```

Examples

Request

Response



CHAPTER 4

Cisco UCS XML Object-Access Privileges

This chapter includes the following sections:

- [Privileges Summary Table, on page 135](#)
- [Privileges, on page 137](#)

Privileges Summary Table

When users are assigned to a role, that role allows certain privileges. Those privileges allow the user access to specific system resources and authorize permission to perform tasks on those resources. The following table lists each privilege and the initial default user role that has been given that privilege.

Internal Name	Label	Description	Default Role Assignment
aaa, on page 137	AAA	System security and AAA	AAA Administrator
admin, on page 138	ADMIN	Access to everything (combines all roles)	Administrator
ext-lan-config, on page 138	EXT_LAN_CONFIG	Configuration of network end points, UCDs, etc.	Network Administrator
ext-lan-policy, on page 138	EXT_LAN_POLICY	External network policies	Network Administrator
ext-lan-qos, on page 139	EXT_LAN_QOS	External LAN QoS	Network Administrator
ext-lan-security, on page 139	EXT_LAN_SECURITY	External LAN security	Network Administrator
ext-san-config, on page 139	EXT_SAN_CONFIG	Configuration of network end points, UCDs, etc.	Storage Administrator
ext-san-policy, on page 140	EXT_SAN_POLICY	External SAN policy	Storage Administrator
ext-san-qos, on page 140	EXT_SAN_QOS	External SAN QoS	Storage Administrator

Privileges Summary Table

Internal Name	Label	Description	Default Role Assignment
ext-san-security, on page 140	EXT_SAN_SECURITY	External SAN security (VACLs, etc.)	Storage Administrator
fault, on page 140	FAULT	Alarms, alarm policies, etc.	Operations
ls-config, on page 141	LS_CONFIG	Service profile configuration	Server Profile Administrator
ls-config-policy, on page 141	LS_CONFIG_POLICY	Service profile configuration policy	Server Profile Administrator
ls-ext-access, on page 142	LS_EXT_ACCESS	Service profile end point access	Server Profile Administrator
ls-network, on page 142	LS_NETWORK	Service profile network	Network Administrator
ls-network-policy, on page 142	LS_NETWORK_POLICY	Setting up MAC pools, etc.	Network Administrator
ls-power, on page 143	LS_POWER	LS power management	Facility Manager
ls-qos, on page 143	LS_QOS	Service profile QoS	Network Administrator
ls-qos-policy, on page 143	LS_QOS_POLICY	Setting up ls-level QoS	Network Administrator
ls-security, on page 144	LS_SECURITY	Service profile security	Server Security Administrator
ls-security-policy, on page 144	LS_SECURITY_POLICY	Setting up security policies	Server Security Administrator
ls-server, on page 144	LS_SERVER	Service profile server management	Server Security Administrator
ls-server-oper, on page 145	LS_SERVER_OPER	Server profile consumer role	Server Profile Administrator
ls-server-policy, on page 145	LS_SERVER_POLICY	Service profile pool policy	Server Security Administrator
ls-storage, on page 145	LS_STORAGE	Service profile storage	Storage Administrator
ls-storage-policy, on page 146	LS_STORAGE_POLICY	Service profile storage policy	Storage Administrator
operations, on page 146	OPERATIONS	Logs, call home functionality, etc.	Operations

Internal Name	Label	Description	Default Role Assignment
pn-equipment, on page 147	PN_EQUIPMENT	Server hardware management	Server Equipment Administrator
pn-maintenance, on page 147	PN_MAINTENANCE	Server maintenance (update BIOS, etc.)	Server Equipment Administrator
pn-policy, on page 148	PN_POLICY	Physical server policies	Server Equipment Administrator
pn-security, on page 148	PN_SECURITY	Physical node security	Server Equipment Administrator
pod-config, on page 148	POD_CONFIG	Pod configuration	Network Administrator
pod-policy, on page 149	POD_POLICY	Pod policies	Network Administrator
pod-qos, on page 149	POD_QOS	Internal pod-QoS (if needed)	Network Administrator
pod-security, on page 149	POD_SECURITY	Pod security	Network Administrator
power-mgmt, on page 149	POWER_MGMT	Data center power management	Facility Manager
read-only, on page 150	READ_ONLY	Read-only access	Available to all roles

Privileges

aaa

Purpose

System security and AAA.

This privilege has read and write access to all users, roles, AAA, and communication services configuration. Read access is available for all other objects.

Responsible Role

AAA Administrator

Controlled Objects

aaa:AuthRealm, aaa:EpAuthProfile, aaa:EpUser, aaa:ExtMgmtCutThruTkn, aaa:LdapEp, aaa:LdapProvider, aaa:Locale, aaa:Log, aaa:Org, aaa:RadiusEp, aaa:RadiusProvider, aaa:RemoteUser, aaa:Role, aaa:Session,

aaa:SshAuth, aaa:TacacsPlusEp, aaa:TacacsPlusProvider, aaa:User, aaa:UserEp, aaa:UserLocale, aaa:UserRole, comm:Cimxml, comm:Dns, comm:DnsProvider, comm:EvtChannel, comm:Http, comm:Https, comm:SmashCLP, comm:Snmp, comm:SnmpTrap, comm:SnmpUser, comm:Ssh, comm:SvcEp, comm:Telnet, comm:WebChannel, comm:Wsman, comm:XmlCICConnPolicy, comm:XmlCICConnPolicy, pki:CertReq, pki:KeyRing, pki:TP

admin

Purpose

System administration

Responsible Role

Administrator

Controlled Objects

This role is system level. The administrator controls all objects.

ext-lan-config

Purpose

External LAN configuration

Responsible Role

Network Administrator

Controlled Objects

adaptor:ExtIf, adaptor:ExtEthIf, adaptor:HostIf, adaptor:HostEthIf, adaptor:HostFcIf, comm:DateTime, comm:Dns, comm:DnsProvider, comm:NtpProvider, fabric:EthLan, fabric:EthLanEp, fabric:EthLanPc, fabric:EthLanPcEp, fabric:LanCloud, fabric:LanPinGroup, fabric:LanPinTarget, fabric:Vlan, macpool:Format, network:Element, top:System, vnic:FcoEIf, vnic:LanConnTempl

ext-lan-policy

Purpose

External LAN policy

Responsible Role

Network Administrator

Controlled Objects

adaptor:ExtIf, adaptor:ExtEthIf, adaptor:HostIf, adaptor:HostEthIf, adaptor:HostFcIf, fabric:EthLan, fabric:EthLanEp, fabric:EthLanPc, fabric:EthLanPcEp, fabric:LanCloud, fabric:LanPinGroup, fabric:LanPinTarget, fabric:VCon, fabric:VConProfile, fabric:Vlan, macpool:Format, vnic:FcoEIf, vnic:LanConnTempl

ext-lan-qos

Purpose

External LAN QoS

Responsible Role

Network Administrator

Controlled Objects

qosclass:Definition, qosclass:EthBE, qosclass:EthClassified, qosclass:Fc

ext-lan-security

Purpose

External LAN security

Responsible Role

Network Administrator

Controlled Objects

comm:DateTime, comm:NtpProvider

ext-san-config

Purpose

External SAN configuration

Responsible Role

Storage Administrator

Controlled Objects

fabric:FcSan, fabric:FcSanEp, fabric:FcSanPc, fabric:FcSanPcEp, fabric:FcVsanPortEp, fabric:SanPinGroup, fabric:SanPinTarget, fabric:Vsan, fcpool:Format, vnic:FcoEIf

ext-san-policy

Purpose

External SAN policy

Responsible Role

Storage Administrator

Controlled Objects

fabric:FcSan, fabric:FcSanEp, fabric:FcSanPc, fabric:FcSanPcEp, fabric:FcVsanPortEp, fabric:SanPinGroup, fabric:SanPinTarget, fabric:Vsan, fcpool:Format, vnic:FcOEIf

ext-san-qos

Purpose

External SAN QoS

Responsible Role

Storage Administrator

Controlled Objects

qosclass:Definition, qosclass:EthBE, qosclass:EthClassified, qosclass:Fc

ext-san-security

Purpose

External SAN security

Responsible Role

Storage Administrator

Controlled Objects

There are no objects assigned to this privilege.

fault

Purpose

Alarms and alarm policies

Responsible Role

Operations

Controlled Objects

callhome:Policy, event:EpCtrl, event:Log, fault:Holder, fault:Inst, fault:Policy

ls-config

Purpose

Service profile configuration

Responsible Role

Server Profile Administrator

Controlled Objects

bios:VFeat, bios:VfConsoleRedirection, bios:VfEnhancedIntelSpeedStepTech, bios:VfFrontPanelLockout, bios:VfIntelHyperThreadingTech, bios:VfIntelTurboBoostTech, bios:VfIntelVTFForDirectedIO, bios:VfIntelVirtualizationTechnology, bios:VfLvDIMMSupport, bios:VfMirroringMode, bios:VfNUMAOptimized, bios:VfProcessorC3Report, bios:VfProcessorC6Report, bios:VfQuietBoot, bios:VfResumeOnACPowerLoss, bios:VfSelectMemoryRASConfiguration, bios:VProfile, extvmm:Ep, extvmm:KeyRing, extvmm:KeyStore, extvmm:MasterExtKey, extvmm:Provider, extvmm:SwitchDelTask, ls:ComputeBinding, ls:Binding, ls:Requirement, ls:Power, ls:Server, ls:Tie, lsboot:Def, lsboot:Lan, lsboot:LanImagePath, lsboot:LocalStorage, lsboot:SanImage, lsboot:SanImagePath, lsboot:Storage, lsboot:VirtualMedia, org:Org, power:Group, power:Regulation, power:Rule, sol:Config, storage:LocalDiskConfigDef, storage:LocalDiskPartition, vm:Cont, vm:DirCont, vm:DC, vm:DCOrg, vm:Org, vm:Switch, vm:DC, vm:DCOrg, vm:Org, vm:Switch, vm:VnicProfCl, vnic:BootTarget, vnic:DynamicCon, vnic:Ether, vnic:EtherIf, vnic:Fc, vnic:FcIf, vnic:FcOEIf, vnic:IPv4Dhcp, vnic:IPv4Dns, vnic:IPv4If, vnic:IPv4StaticRoute, vnic:IpV4PooledAddr, vnic:IpV4StaticAddr, vnic:Ipc, vnic:IpIf, vnic:Scsi, vnic:ScsiIf

ls-config-policy

Purpose

Service profile configuration policy

Responsible Role

Server Profile Administrator

Controlled Objects

adaptor:EthCompQueueProfile, adaptor:EthFailoverProfile, adaptor:EthInterruptProfile, adaptor:EthOffloadProfile, adaptor:EthRecvQueueProfile, adaptor:EthWorkQueueProfile, adaptor:ExtIpV6RssHashProfile, adaptor:FcCdbWorkQueueProfile, adaptor:FcErrorRecoveryProfile, adaptor:FcInterruptProfile, adaptor:FcPortFLogiProfile, adaptor:FcPortPLogiProfile, adaptor:FcPortProfile, adaptor:FcRecvQueueProfile, adaptor:FcWorkQueueProfile, adaptor:HostEthIfProfile, adaptor:HostFcIfProfile,

adaptor:IPv4RssHashProfile, adaptor:IPv6RssHashProfile, adaptor:RssProfile, extvmm:Ep, extvmm:KeyRing, extvmm:KeyStore, extvmm:MasterExtKey, extvmm:Provider, extvmm:SwitchDelTask, firmware:ComputeHostPack, firmware:ComputeMgmtPack, ls:AgentPolicy, ls:ComputeBinding, ls:Binding, ls:Requirement, ls:Tier, lsboot:Def, lsboot:Lan, lsboot:LanImagePath, lsboot:LocalStorage, lsboot:Policy, lsboot:SanImage, lsboot:SanImagePath, lsboot:Storage, lsboot:VirtualMedia, org:Org, sol:Config, sol:Policy, storage:LocalDiskConfigDef, storage:LocalDiskConfigPolicy, storage:LocalDiskPartition, vm:Cont, vm:DirCont, vm:DC, vm:DCOrg, vm:Org, vm:Switch, vm:DC, vm:DCOrg, vm:Org, vm:Switch, vm:VnicProfCl

Is-ext-access

Purpose

Service profile end point access

Responsible Role

Server Profile Administrator

This privilege is not used.

Is-network

Purpose

Service profile network

Responsible Role

Network Administrator

Controlled Objects

dpsec:Mac, extvmm:Provider, extvmm:SwitchDelTask, fabric:DceSwSrvEp, fabric:VCon, fabric:VConProfile, flowctrl:Definition, flowctrl:Item, macpool:Format, nwctrl:Definition, qos:Definition, epqos:Definition, epqos:DefinitionDelTask, qosclass:Definition, qos:Item, epqos:Item, epqos:Egress, qosclass:Item, qosclass:Eth, qosclass:EthBE, qosclass:EthClassified, qosclass:Fc, vm:Cont, vm:DirCont, vm:DC, vm:DCOrg, vm:Org, vm:Switch, vm:DC, vm:DCOrg, vm:Org, vm:Switch, vm:VnicProfCl, vnic:DefBeh, vnic:DynamicCon, vnic:DynamicConPolicy, vnic:DynamicIdUniverse, vnic:Ether, vnic:EtherIf, vnic:IPv4Dhcp, vnic:IPv4Dns, vnic:IPv4If, vnic:IPv4StaticRoute, vnic:IPv4PooledAddr, vnic:IPv4StaticAddr, vnic:Ipc, vnic:IpcIf, vnic:LanConnTempl, vnic:Profile, vnic:ProfileSet

Is-network-policy

Purpose

Service profile network policy

Responsible Role

Network Administrator

Controlled Objects

dpsec:Mac, fabric:DceSrv, fabric:DceSwSrv, fabric:DceSwSrvEp, fabric:EthDiag, fabric:FcDiag, fabric:VCon, fabric:VConProfile, flowctrl:Definition, flowctrl:Item, ippool:Block, ippool:Pool, macpool:Block, macpool:Format, macpool:Pool, nwctrl:Definition, qos:Definition, epqos:Definition, epqos:DefinitionDelTask, qosclass:Definition, qos:Item, epqos:Item, epqos:Egress, qosclass:Item, qosclass:Eth, qosclass:EthBE, qosclass:EthClassified, qosclass:Fc, uuidpool:Block, vnic:DynamicCon, vnic:DynamicConPolicy, vnic:DynamicIdUniverse, vnic:LanConnTempl, vnic:Profile, vnic:ProfileSet

Is-power

Purpose

Service profile power management

Responsible Role

Facility Manager

Is-qos

Purpose

Service profile

Responsible Role

QoS Network Administrator

This privilege is not used.

Is-qos-policy

Purpose

Service profile QoS policy

Responsible Role

Network Administrator

Controlled Objects

flowctrl:Definition, flowctrl:Item, qos:Definition, epqos:Definition, epqos:DefinitionDelTask, qosclass:Definition, qos:Item, epqos:Item, epqos:Egress, qosclass:Item, qosclass:Eth, qosclass:EthBE, qosclass:EthClassified, qosclass:Fc

Is-security

Purpose

Service profile security

Responsible Role

Server Security Administrator

Controlled Objects

aaa:EpAuthProfile, aaa:EpUser

Is-security-policy

Purpose

Service profile security policy

Responsible Role

Server Security Administrator

Controlled Objects

aaa:EpAuthProfile, aaa:EpUser

Is-server

Purpose

Service profile server management

Responsible Role

Server Security Administrator

Controlled Objects

bios:VFeat, bios:VfConsoleRedirection, bios:VfEnhancedIntelSpeedStepTech, bios:VfFrontPanelLockout, bios:VfIntelHyperThreadingTech, bios:VfIntelTurboBoostTech, bios:VfIntelVTForDirectedIO, bios:VfIntelVirtualizationTechnology, bios:VfLvDIMMSupport, bios:VfMirroringMode, bios:VfNUMAOptimized, bios:VfProcessorC3Report, bios:VfProcessorC6Report, bios:VfQuietBoot, bios:VfResumeOnACPowerLoss, bios:VfSelectMemoryRASConfiguration, bios:VProfile, ls:ComputeBinding, ls:Binding, ls:Requirement, ls:Power, ls:Server, ls:Tier, lsboot:Def, lsboot:Lan, lsboot:LanImagePath, lsboot:LocalStorage, lsboot:SanImage, lsboot:SanImagePath, lsboot:Storage, lsboot:VirtualMedia, power:Group, power:Regulation, power:Rule, sol:Config, storage:LocalDiskConfigDef, storage:LocalDiskPartition, vnic:BootTarget, vnic:DefBeh, vnic:DynamicCon, vnic:Ether, vnic:EtherIf, vnic:Fc, vnic:Fclf, vnic:FcNode, vnic:FcOEI, vnic:IPv4Dhcp, vnic:IPv4Dns, vnic:IPv4If, vnic:IPv4StaticRoute, vnic:IPv4PooledAddr, vnic:IPv4StaticAddr, vnic:Ipc, vnic:IpcIf, vnic:Scsi, vnic:ScsiIf

ls-server-oper

Purpose

Service profile consumer role

This privilege controls these operations on the service profile:

- Launch KVM
- Boot Server
- Shutdown Server
- Reset

Responsible Role

Server Profile Administrator

ls-server-policy

Purpose

Service profile pool policy

Responsible Role

Server Security Administrator

Controlled Objects

adaptor:EthCompQueueProfile, adaptor:EthFailoverProfile, adaptor:EthInterruptProfile, adaptor:EthOffloadProfile, adaptor:EthRecvQueueProfile, adaptor:EthWorkQueueProfile, adaptor:ExtIpV6RssHashProfile, adaptor:FcCdbWorkQueueProfile, adaptor:FcErrorRecoveryProfile, adaptor:FcInterruptProfile, adaptor:FcPortFLogiProfile, adaptor:FcPortPLogiProfile, adaptor:FcPortProfile, adaptor:FcRecvQueueProfile, adaptor:FcWorkQueueProfile, adaptor:HostEthIfProfile, adaptor:HostFcIfProfile, adaptor:IpV4RssHashProfile, adaptor:IpV6RssHashProfile, adaptor:RssProfile, bios:VFeat, bios:VfConsoleRedirection, bios:VfEnhancedIntelSpeedStepTech, bios:VfFrontPanelLockout, bios:VfIntelHyperThreadingTech, bios:VfIntelTurboBoostTech, ios:VfIntelVTFForDirectedIO, bios:VfIntelVirtualizationTechnology, bios:VfLvDIMMSupport, bios:VfMirroringMode, bios:VfNUMAOptimized, bios:VfProcessorC3Report, bios:VfProcessorC6Report, bios:VfQuietBoot, bios:VfResumeOnACPowerLoss, bios:VfSelectMemoryRASConfiguration, bios:VProfile, fabric:VCon, fabric:VConProfile, firmware:ComputeHostPack, firmware:ComputeMgmtPack, ls:AgentPolicy, ls:ComputeBinding, ls:Binding, ls:Requirement, ls:Power, ls:Tier, lsboot:Policy, power:Group, power:Regulation, power:Rule

ls-storage

Purpose

Service profile storage

Responsible Role

Storage Administrator

Controlled Objects

fcpool:Format, lsboot:Def, lsboot:Lan, lsboot:LanImagePath, lsboot:LocalStorage, lsboot:SanImage, lsboot:SanImagePath, lsboot:Storage, lsboot:VirtualMedia, storage:LocalDiskConfigDef, storage:LocalDiskConfigPolicy, storage:LocalDiskPartition, uuidpool:Format, vnic:BootTarget, vnic:DefBeh, vnic:Fc, vnic:FcIf, vnic:FcNode, vnic:FcOEIf, vnic:SanConnTempl, vnic:Sesi, vnic:SesiIf

Is-storage-policy

Purpose

Service profile storage policy

Responsible Role

Storage Administrator

Controlled Objects

fabric:VCon, fabric:VConProfile, fcpool:Block, fcpool:BootTarget, fcpool:Format, fcpool:Initiator, fcpool:Initiators, lsboot:Def, lsboot:Lan, lsboot:LanImagePath, lsboot:LocalStorage, lsboot:SanImage, lsboot:SanImagePath, lsboot:Storage, lsboot:VirtualMedia, storage:LocalDiskConfigDef, storage:LocalDiskConfigPolicy, storage:LocalDiskPartition, uuidpool:Format, vnic:SanConnTempl

operations

Purpose

Logs and Smart Call Home

Responsible Role

Operations

Controlled Objects

aaa:Log, callhome:Dest, callhome:Ep, callhome:PeriodicSystemInventory, callhome:Profile, callhome:Smt, callhome:Source, callhome:TestAlert, comm:DateTime, comm:NtpProvider, comm:Syslog, comm:SyslogClient, comm:SyslogConsole, comm:SyslogFile, comm:SyslogMonitor, condition:Log, aaa:Log, event:Log, event:EpCtrl, event:Log, fault:Inst, stats:CollectionPolicy, stats:Curr, adaptor:EthPortBySizeLargeStats, adaptor:EthPortBySizeSmallStats, adaptor:EthPortErrStats, adaptor:EthPortMcastStats, adaptor:EthPortOutsizedStats, adaptor:EthPortStats, adaptor:EtherIfStats, adaptor:FcIfEventStats, adaptor:FcIfFC4Stats, adaptor:FcIfFrameStats, adaptor:FcPortStats, adaptor:MenloBaseErrorStats, adaptor:MenloDcePortStats, adaptor:MenloEthErrorStats, adaptor:MenloEthStats, adaptor:MenloFcErrorStats, adaptor:MenloFcStats, adaptor:MenloHostPortStats, adaptor:MenloMcpuErrorStats, adaptor:MenloMcpuStats, adaptor:MenloNetEgStats, adaptor:MenloNetInStats, adaptor:MenloQErrorStats, adaptor:MenloQStats,

adaptor:VnicStats, compute:IOHubEnvStats, compute:MbPowerStats, compute:MbTempStats, compute:PCIEFatalCompletionStats, compute:PCIEFatalProtocolStats, compute:PCIEFatalReceiveStats, compute:PCIEFatalStats, equipment:ChassisStats, equipment:FanModuleStats, equipment:FanStats, equipment:IOCardStats, equipment:PsuInputStats, equipment:PsuStats, ether:ErrStats, ether:LossStats, ether:PauseStats, ether:RxStats, ether:TxStats, fc:ErrStats, fc:Stats, memory:ArrayEnvStats, memory:BufferUnitEnvStats, memory:ErrorStats, memory:Runtime, memory:UnitEnvStats, processor:EnvStats, processor:ErrorStats, processor:Runtime, sw:EnvStats, sw:SystemStats, stats:Holder, stats:Thr32Definition, stats:Thr32Value, stats:Thr64Definition, stats:Thr64Value, stats:ThrFloatDefinition, stats:ThrFloatValue, stats:ThresholdClass, stats:ThresholdDefinition, stats:Thr32Definition, stats:Thr64Definition, stats:ThrFloatDefinition, stats:ThresholdPolicy, stats:ThresholdValue, stats:Thr32Value, stats:Thr64Value, stats:ThrFloatValue, sysdebug:AutoCoreFileExportTarget, sysdebug:BackupBehavior, sysdebug:Core, sysdebug:CoreFileExportTarget, sysdebug:AutoCoreFileExportTarget, sysdebug:ManualCoreFileExportTarget), sysdebug:CoreFileRepository, sysdebug:LogControlDestinationFile, sysdebug:LogControlDestinationSyslog, sysdebug:LogControlDomain, sysdebug:LogControlEp, sysdebug:LogControlModule, sysdebug:MEpLog, sysdebug:MEpLogPolicy, sysdebug:ManualCoreFileExportTarget, sysfile:Mutation

pn-equipment

Purpose

Server hardware management

Responsible Role

Server Equipment Administrator

Controlled Objects

adaptor:ExtIf, adaptor:ExtEthIf, adaptor:HostIf, adaptor:HostEthIf, adaptor:HostFcIf, compute:Blade, compute:PsuPolicy, diag:SrvCtrl, equipment:Chassis, equipment:Led, equipment:IndicatorLed, equipment:LocatorLed, fabric:ComputeSlotEp, fabric:SwChPhEp

pn-maintenance

Purpose

Server maintenance

Responsible Role

Server Equipment Administrator

Controlled Objects

adaptor:ExtIf, adaptor:ExtEthIf, adaptor:HostIf, adaptor:HostEthIf, adaptor:HostFcIf, compute:Blade, diag:SrvCtrl, equipment:Chassis, equipment:Led, equipment:IndicatorLed, equipment:LocatorLed, fabric:ComputeSlotEp, fabric:SwChPhEp

pn-policy

Purpose

Server policy

Responsible Role

Server Equipment Administrator

Controlled Objects

adaptor:CapQual, adaptor:Qual, bios:VFeat, bios:VfConsoleRedirection, bios:VfEnhancedIntelSpeedStepTech, bios:VfFrontPanelLockout, bios:VfIntelHyperThreadingTech, bios:VfIntelTurboBoostTech, bios:VfIntelVTForDirectedIO, bios:VfIntelVirtualizationTechnology, bios:VfLvDIMMSupport, bios:VfMirroringMode, bios:VfNUMAOptimized, bios:VfProcessorC3Report, bios:VfProcessorC6Report, bios:VfQuietBoot, bios:VfResumeOnACPowerLoss, bios:VfSelectMemoryRASConfiguration, bios:VProfile, compute:AutoconfigPolicy, compute:Blade, compute:BladeDiscPolicy, compute:BladeInheritPolicy, compute:ChassisDiscPolicy, compute:ChassisQual, compute:DiscPolicy, compute:BladeDiscPolicy, compute:ChassisDiscPolicy, compute:PhysicalQual, compute:Pool, compute:PooledPhysical, compute:PooledSlot, compute:PooledSlot, compute:PoolingPolicy, compute:PsuPolicy, compute:Qual, compute:QualItem, adaptor:CapDef, adaptor:CapQual, adaptor:CapSpec, adaptor:Qual, compute:BladePosQual, compute:ChassisQual, compute:SlotQual, compute:PhysicalQual, memory:Qual, processor:Qual, storage:Qual, compute:ScrubPolicy, compute:SlotQual, diag:BladeTest, diag:NetworkTest, diag:RunPolicy, equipment:Chassis, equipment:Led, equipment:IndicatorLed, equipment:LocatorLed, extvmm:Ep, extvmm:KeyRing, extvmm:KeyStore, extvmm:MasterExtKey, extvmm:Provider, extvmm:SwitchDelTask, fabric:ComputeSlotEp, fabric:SwChPhEp, memory:Qual, org:Org, processor:Qual, storage:Qual, uuidpool:Pool, vm:Cont, vm:DirCont, vm:DC, vm:DCOrg, vm:Org, vm:Switch, vm:DC, vm:DCOrg, vm:LifeCyclePolicy, vm:Org, vm:Switch, vm:VnicProfCl

pn-security

Purpose

Server security

Responsible Role

Server Security Administrator

Controlled Objects

mgmt:IntAuthPolicy

pod-config

Purpose

Pod configuration

Responsible Role

Network Administrator

This privilege is not used.

pod-policy

Purpose

Pod policy

Responsible Role

Network Administrator

This privilege is not used.

pod-qos

Purpose

Pod QoS

Responsible Role

Network Administrator

This privilege is not used.

pod-security

Purpose

Pod security

Responsible Role

Network Administrator

This privilege is not used.

power-mgmt

Purpose

Data center power management

This role provides read and write access for power capacity management including power group configurations and other power-related policies.

Responsible Role

Facility Manager

read-only**Purpose**

Read-only access

Responsible Role

This is not a selectable privilege. All roles have read-only access to all objects. Roles that have read-write privileges on some objects also have read-only access to all other objects.